

Principles of Public Finance

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PREFACE

THIS book contains the substance of lectures on the Theory of Public Finance delivered at the London School of Economics. It is designed, in Bacon's words, "to excite the judgment briefly, rather than to inform it tediously." I have aimed at setting out, without undue elaboration, the chief general principles which are applicable to the public finance of a modern community. For the study of first principles is a necessary preliminary to an effective discussion of practical problems, and should be helpful in providing a framework of general ideas, into which particular ideas and particular facts can be fitted, so as to appear, not as unique and isolated things, but in their true relation to a larger whole:

Though I may seem occasionally to have yielded a little to temptation, it is not my object in this book to advocate any detailed practical policy, but only to indicate some of the general considerations on which f any sound policy must be based. Facts, in the field of public finance, are moving so rapidly at the present time, that realistic studies are soon out of date and the form, in which practical problems present themselves, is constantly changing. But there are certain general principles of which this is not true. Ignorance, or neglect, of these has caused, and is still causing, grave economic damage to the world. In the course of my argument, therefore, I have occasionally turned aside

PREFACE

to criticise certain current opinions on questions of taxation, public expenditure and public debts, which I believe to rest upon errors of judgment and confusions of mind.

It has been customary with the majority of economists to adopt a somewhat negative attitude towards public expenditure. I have attempted to treat this part of the subject more positively and to exhibit the parallelism which exists between the theory of public expenditure and that of taxation.

I have made few references in the text to the writings of others. But for the benefit of readers, who wish to pursue the subject further, I have added a short note on books.

HUGH DALTON.

London School of Economics, September, 1922.

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CONTENTS

PART I.-INTRODUCTORY.

CHAPTER I. THE NATURE OF PUBLIC FINANCE AND THE MAIN DIVISIONS OF THE SUBJECT

§1. Public finance deals with the income and expenditure of public authorities and with their mutual adjustment. Public authorities are all sorts of territorial governments. §2. Such income and expenditure chiefly consist of money receipts and money payments. §3. The main divisions of public finance are (1) public income, (2) public expenditure, (3) public debts and assets, (4) financial administration. The scheme of this book.

CHAFTER II. THE PRINCIPLE OF MAXIMUM SOCIAL Advantage

§1. The effects of raising public revenue should be balanced against the effects of spending it. The distinction between faise and true economy. §2. Most of the operations of public finance resolve themselves into transfers of purchasing power. The best system of public finance is that which secures the maximum social advantage from the operations involved. §3. Important criteria of social advantage are (1) the preservation of the community against internal disorders and external attacks, (2) im-, provements in productive power, (3) improvements in distribution. §4. Some negative conclusions.

CHAPTER III. PUBLIC FINANCE AND PRIVATE FINANCE

§1. The adjustment of income and expenditure by a private individual and by a public authority. §2. A private individual tends to distribute his expenditure so as to equalise marginal utilities. A similar principle should govern the distribution of public expenditure between different objects. §3. A similar principle should govern the distribution of public income between different sources. §4. Public authorities can wary their income and expenditure more easily than private individuals §5. Statesmen should discount the future less than private individuals do.

3

2

CHAPTER XI. THE EFFECTS OF TAXATION ON

types of tax system. §3. Some taxes inevitably regressive. §4. Possibilities of progression in an income tax. §5. In an expenditure tax. §6. In an inheritance tax. §7. In a general property tax. §8. In land taxes and corporation taxes. §9. A protective tariff in relation to distribution. §10. Recent development of the British tax system,

CHAPTER XII. SOME OTHER EFFECTS OF TAXATION 118 §1. The cost of collection of various taxes to the public authority. §2. And to those from whom the taxes are collected. §3. The effects of taxation on employment. \$4. Errors due to the omission to take account of the effects of public expenditure.

CHAPTER XIII. THE TAX SYSTEM FROM THE POINT OF VIEW OF ECONOMY . . .

. 125

§1. The last three chapters in relation to first principles. §2. Taxation according to ability to pay, interpreted broadly, equivalent to minimum sacrifice, or maximum social advantage, in the long run.

CHAPTER XIV, INCOME FROM PUBLIC PROPERTY AND PUBLIC ENTERPRISES 128

§r. The receipt of such income justifies a decrease of taxation and an increase of public expenditure: §2. Political considerations sometimes relevant. §3. Effects of public ownership and enterprise upon production. §4. And upon distribution. §5. Three alternative principles of payment for public services. §6. Three further alternatives, when the voluntary price principle is adopted. §7. Cases in which the compulsory cost of service principle should be adopted. §8. Missed opportunities of securing a large revenue from public property and enterprises,

CHAPTER XV. INCOME FROM THE PUBLIC PRINTING

§1. The printing press may be used, either directly or indirectly, to raise revenue. This is correccy inflation. §2. The effect of inflation is to reduce the value of the currency both internally and externally. §3. It operates as a regressive tax and causes a redistribution of income. §4. Its effect on production. §5. Public acquiescence in inflation due to economic ignorance. After a certain point the revenue yield of inflation rapidly dries up.

×

CONTENTS

PART III.—PUBLIC EXPENDITURE.

§1. Results of neglect by economists of the theory of public expenditure. §2. Distinction between expenditure to preserve social life against attack and to improve its quality. §3. Chief forms of actual expenditure. §4. Classifications of expenditure.

CHAPTER XVII. GRANTS AND PURCHASE PRICES 3. 148

§1. The distinction between grants and purchase prices is parallel to that between taxes and selling prices. §2. Development of this parallel. §3. Its possible application to the equitable distribution of grants. §4. Incidence of grants part of the larger question of their economic effects.

CHAPTER XVIII. THE EFFECTS OF PUBLIC EXPENDI-TURE ON PRODUCTION

. 154

§1. Other things equal, public expenditure should increase production as much as possible. §2. An example of confused thought. §3. A digression on armed forces. §4. Effects of public expenditure on ability to work and save. § 5. And on desire to work and save. §6. Diversion of economic resources through public expenditure. §7. Diversion to secure better provision for the future. §8. Diversion as between different localities. §9. Summary of main conclusions.

§1. Public expenditure should reduce the inequality of incomes. §2. Regressive, proportional and progressive grants. §3. Indirect effect of grants on distribution. §4. Effect of grants in adjusting incomes more closely to needs. §5. Grants conferring common benefit.

CHAPTER XX. SOME OTHER EFFECTS OF PUBLIC EXPENDITURE

. 173

§1. Cost of administration. §2. The possibility of diminishing unemployment through steadying the demand for labour. §3. The central problem of public finance restated.

xi.

CONTENTS

PART IV.--PUBLIC DEBTS.

CHAPTER XXI. THE GENERAL CHARACTERISTICS OF PUBLIC DEBTS . . . 179

 Public debts and public assets.
 \$2. Classification of public debts.
 \$3. Funded, unfunded and floating debt.
 \$4. Special inducements to lenders.
 \$5. Fixed and variable rates of interest.
 \$6. The historical persistence of war debts.

CHAPTER XXII. THE BURDEN OF PUBLIC DEBTS . 18c

§r. Direct and indirect burden of an external debt. §2. Direct burden of an internal debt. §3. Indirect burden of internal and external debt. §4. Probable increase during peace of burden of war debts. §5. Limits within which public borrowing is legitimate.

CHAPTER XXIII. THE REPAYMENT OF PUBLIC DEBTS 198

§1. Repayment or repudiation. Arguments against repudiation. §2. Conditions under which a demand for repudiation might arise. §3. The rate of repayment. §4. Principles of a special debt-redemption levy. §5. A further advantage of such a levy. §6. The cost of delay.

NOTE ON BOOKS

xii

PART I INTRODUCTORY

CHAPTER I

THE NATURE OF PUBLIC FINANCE AND THE MAIN DIVISIONS OF THE SUBJECT

§ I. Public finance is one of those subjects which lie on the border line between economics and politics. It is concerned with the income and expenditure of public authorities, and with the adjustment of the one to the other. The "Principles of Public Finance" are the general principles, which may be laid down with regard to these matters.

"Public authorities" include all sorts of territorial governments, from parish councils up to national, imperial and even international governments. They differ widely among themselves, of course, as regards the magnitude of the areas and populations which they govern, the range of functions which they exercise, their methods of obtaining income, the objects of their expenditure, and their financial relations with other public authorities, superior or subordinate to themselves. But in a broad survey of the subject these differences are. only of secondary importance. In particular, there is no fundamental distinction between the public finance of "central" and of "local" authorities in such a country as Great Britain, or of the various grades of government in the hierarchy of a Federal Constitution. 5.20

§ 2. In modern civilised communities the income. and expenditure of public authorities consist, almost exclusively, of money receipts and money payments. The word "finance" signifies "money matters" and their management, and public finance in its modern sense presupposes the existence of a money economy.

The expenditure of public authorities, indeed, consists practically without exception of money payments. But we may notice two sorts of public receipts. which are not money receipts, viz., (I) certain unpaid personal services, and (2) the payment of certain taxes otherwise than in money. Some unpaid services are rendered voluntarily to public authorities, others under legal compulsion. Examples of the former sort in this country are the services of Justices of the Peace and of elected members of various local authorities, and even, till a few years ago, the services of private members of Parliament. Examples of the latter sort, which have been called "labour taxes," are the services of jurors, the obligation resting upon all citizens under the English common law to assist in sweeping snow from the streets, in extinguishing fires and in helping the police to catch murderers and thieves, and the "corvée" or forced -labour, which is still imposed on coloured populations in certain colonies, chiefly for road-making and other public works. *Another and more important form of compulsory service, which is still found, even in peace time, in nearly all modern communities, is compulsory military service. But this differs from the corvée in that it is paid for, though at a very much lower rate than it would be necessary to offer, in order to secure an equal amount of voluntary paid service. Unpaid services, · whether voluntary or obligatory, are of small and

THE NATURE OF PUBLIC FINANCE

diminishing importance in modern public finance. They are gradually being dispensed with, partly on the ground that they are usually inefficient, and partly because they are thought to be contrary to democratic principles.

The payment of taxes in money has gradually superseded their payment in kind, for the same reason that a · money economy has gradually superseded a barter economy, that is to say, on grounds of general convenience. But in this country there has recently been a slight movement in the opposite direction. Thus since 1909 the Death Duties of landowners may, with the consent of the Inland Revenue authorities, be paid in land, though, when this proposal was first made in the House of Commons in 1906, it was ridiculed on the ground that, if it was accepted, distillers would next be asking to pay their Death Duties in whisky. Again, certain taxes may be paid in certain public securities. Thus since 1919 Death Duties may be paid in Victory Bonds, a convenient means of debt redemption, though somewhat expensive to the Treasury, since a f100 Bond, which was issued at 85 and has always stood below par in the market, is accepted as the equivalent of f100 of tax.

§ 3. The main division in public finance is between public income and public expenditure, which form two symmetrical branches of the subject. Some writers have excluded public expenditure from the scope of public finance, but this is clearly illogical. Public debts areoften treated as a separate branch of the subject and this is convenient, since they give rise to a number of pecial problems. On the other hand, receipts from

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INTRODUCTORY

public borrowings form part of public income, while payments of interest on, and repayments of the principal of, public debts form part of public expenditure. Similarly receipts from public assets, whether in the shape of annual income or of the proceeds of sales, form part of public income, while payments in respect of public assets, whether in the shape of expenses of management, or initial expenses of acquisition, form part of public expenditure.

Financial administration, again, raises a series of special problems and is often treated as a separate branch of the subject. It is not dealt with in this book, since the general principles which can be laid down with regard to it are comparatively few, and since their effective discussion presupposes in the reader a detailed acquaintance with existing financial systems. Financial administration, therefore, belongs to the stage of realistic study in public finance rather than to that of general principles.

Part II of this book is devoted to public income. Part III to public expenditure and Part IV to public debts. Public assets are referred to at those points in the discussion, when they become relevant, but they are unfortunately much rarer and of much less practical importance than public debts. The two remaining chapters of Part I are concerned respectively with the fundamental principle which should govern all problems of public finance, and with the relation of public to private finance, and both these chapters have a bearing on the mutual adjustment of public income and public expenditure.

CHAPTER II

THE PRINCIPLE OF MAXIMUM SOCIAL ADVANTAGE

§ I. In the sphere of public finance we are still greatly beset by the superficial views and shallow precepts of an earlier age. ["The very best of all plans of finance," said J. B. Say, a hundred and thirty years + ago, " is to spend little and the best of all taxes is that which is least in amount." He would still find many to agree with him. Much current discussion, and even much orthodox literature on this subject, starts from the • negative assertion that ["every tax is an evil."] Credulous minds are thus biassed in advance against all forms of public expenditure. This view is guite unscientific. It would be equally unscientific, but not more so, to start from the positive assertion that [" all public expenditure is a good."] It is not true that every tax is an evil. A tax on alcohol, which by raising its. price diminishes its consumption, may be a positive good. For it was not a desirable state of things, when in the eighteenth century in England " a man could get drunk for a penny and dead drunk for twopence." Similarly, of course, it is not true that all public expenditure is a good. The ill-contrived poor relief, which was given in England at the beginning of the nineteenth century, did much harm, and public expenditure on unnecessary wars is an obvious evil. But it is

INTRODUCTORY

not possible to pass a complete judgment upon any operation in public finance without balancing against one another both sides of the operation, the effects of the raising, and the effects of the spending, of public revenue.

Historically the idea that all taxes are an evil appears as a deduction from the facile individualist doctrine that, outside the narrow sphere of its traditional minimum of activities, the State can do no right. But this doctrine is now seen to err on the side of simplicity. Historically also the idea is connected with the supposed distinction between "productive" and "unproductive" expenditure. It was imagined by early economists, including Adam Smith and Ricardo, that most of the private expenditure, which taxation checked, was "productive," while all public expenditure, which taxes paid for, was "unproductive." But this idea is fallacious, and the supposed distinction which it implies has long been discredited. The only economic test of the "productiveness" of any expenditure is its productiveness of economic welfare, and public expenditure on education and health is often productive of greater economic welfare than private expenditure on luxuries, or even on new capital goods.¹

None the less, it is an ingrained habit with many "respectable authorities" on public finance,—statesmen and city magnates, no less than textbook writers somewhat uncritically to deplore that growth of public expenditure which, independently of war and preparations for war, has been steadily proceeding in all civilised communities for many years past. A long series of Chancellors of the Exchequer have

¹ See Chapter XVIII.

igued successive Parliaments upon this theme with itional gloom and set phrases of dismay. But a hancellor of the Exchequer deprecating in the House of ommons expenditure sanctioned by the Cabinet, of which he is, or should be, one of the most influential members, is surely a slightly absurd, if not almost an unconstitutional, spectacle. For, if he has not considered the expenditure to be reasonably necessary, he should have resigned.

It is a truth not confined to public finance that "our great need is economy." But there is a sharp distinction to be drawn between false and true economy, between spending as little as we can, regardless of the results attained, and spending whatever is necessary in order to produce the best results attainable,—in • short, between spending hittle and spending wisely.

§2. If, therefore, public finance is to be treated as a branch of science, economic or political, and not merely as a string of catchpenny maxims, one fundamental principle must lie at the root of it. This we may call the Principle of Maximum Social Advantage.
Most of the operations of public finance resolve themselves into a series of transfers of purchasing power. These transfers are made, by taxation or otherwise, from certain individuals to public authorities, and back again from these authorities, by way of public Expenditure, to other individuals, some of whom, such as policemen or contractors, render services in return, while others, such as old age pensioners, do not.¹ As a result

² Sometimes the beneficiaries of public expenditure receive, not purchasing power, in the form of money, but specific goods or services, such as uniforms, education or medical treatment.

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of these operations, changes take place in the ame and in the nature of the wealth which is produced, ar in the distribution of that wealth among individuals an classes. Are these changes in their aggregate effect. socially advantageous ? If so, the operations are justified; if not, not. The best system of public finance is that which secures the maximum social advantage from the operations which it conducts. This principle 15 obvious, simple and far-reaching, though its practical application is often very difficult. But the difficulty inherent in the subject, and cannot legitimately be avoided by substituting a wrong principle for a right one, in order to arrive more easily at practical conclusions.

§ 3. In seeking to apply this principle we need to have before us certain tests of social advantage. The first which suggests itself is the need to preserve the community, assuming it to be worth preserving in its existing form, against internal disorders and external attacks. How this should best be done falls outside the scope of this discussion. But it is a question of wise public policy at home and abroad, and not merely of expenditure on armaments and police. If any community in its existing form is not worth preserving, it is the business of statesmen to try to make it so. And, in any case, it is their business to try to increase the welfare, both economic and non-economic, of its members.

This brings us naturally to the more strictly economic tests of social advantage, with which alone this book is concerned. The two chief conditions of an increase in the economic welfare of any community are, first, improvements in productive power and.

ond, improvements in the distribution of what is roduced. Improvements in productive power resolve hemselves into mere increases in productive power, so that a larger product per head of the population shall be obtained with a smaller effort, and improvements in the character of what is produced, so that a given amount of product shall go further in satisfying economic needs, and shall thus give rise to greater welfare. Improvements in distribution economic resolve themselves into a reduction in the great inequality, which is found in most civilised communities. in the incomes of different individuals and families, and a reduction in the great variability, between different periods of time, of the incomes of particular individuals and families, especially among the poorer sections of the community. All these are well accepted canons of economic improvement, and in so far as the operations of public finance can bring about improvement on the whole, such operations are justified.

It should be added that the statesman is a trustee" for the future, no less than for the present. Individuals die, but the community, of which they form a part. lives on. The statesman, therefore, should prefer a! larger social advantage in the future to a smaller one to-day.

§ 4. With these applications of the Principle of Maximum Social Advantage we shall be concerned in more detail later. But at this point a few negative conclusions may usefully be drawn, as correctives to certain popular arguments.

It is impossible "to make an estimate," as has recently been suggested in Parliament, "of what this

INTRODUCTORY

12

country, taking its income into consideration, c. really afford in the way of public expenditure." Fo what can be "afforded" depends partly on how thi money is raised, and partly on how it is spent. We cannot afford the expense of an unnecessary war, or even of an unnecessary public department, however the money is raised. On the other hand we may be able to afford a considerable expenditure in various desirable directions, if the money is raised by one scheme of taxation, but not if it is raised by another. Unless hedged about with many qualifications and assumptions, the "taxable capacity" of a community is a phrase which has very little meaning.

Again, it is not universally true that "private individuals spend money better than government does," and the general restriction of public expenditure cannot be defended on this basis. Gladstone, indeed, used to speak of "leaving money to fructify in the pockets of the people," as though it were a ripening cheese, and to defend this policy as preferable to the maintenance of taxation, even when the chief purpose of the latter was the more rapid reduction of national debt. But he and most of his generation were blind to the advantages of public expenditure on such objects as old age pensions, provision against sickness and unemployment, and the like. Amid the grave financial difficulties of the period through which we are passing we need to scrutinize more closely than usual the expenditure of private individuals, no less than of public authorities. This truth is not yet as widely emphasised as it should Thus in the early summer of 1020 I noticed one be day the headlines of two newspapers, side by side One

pilloried "The Spendthrifts " and contained an article attacking the Government for paying large salaries to officials at the Ministry of Transport; the other advertised "Ascot Last Day," and informed me, with an air of regret for the good old days, that some ladies were wearing only four new dresses during the six days of that race meeting, instead of the six which were customary before the war. "Retrenchment" is a blessed word, but it should be applied to private no less than to public extravagance. It is not wisdom to cut down public expenditure simply in order that private individuals may have more to spend as they please.

On the other hand, it is not universally true, as some modern writers suggest, that "government." spends money better than private individuals do," and the general expansion of public expenditure cannot be defended on this basis. It may often be true that. on the average, public spending out of the proceeds of taxation is of greater social advantage than the private spending, which would have taken place if the taxation had not been imposed. But it does not follow that it. would be socially advantageous to increase public) expenditure and correspondingly to diminish private expenditure. For it may not be the most useful parts of the former that will expand, or the most useless parts of the latter that will be cut off. A Government with more money to spend may spend it on projects which are not worth what they cost. A rich frequenter of Ascot, with more taxes to pay, may pay them, not out of what he spends on his wife's dresses or his own, drinks, but out of what he might otherwise have invested in Housing Bonds.

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Finally, to take a misconception of another kind, "Taxation for revenue only" is a shallow and mistaken precept. All taxes have effects besides the mere raising of revenue, and the best taxes are those which, in addition to raising the revenue required, have on the whole the best effects. It is the business of statesmen to investigate the effects of various alternative taxes, and to act upon the results of their investigations, not to set up for themselves a self-denying ordinance against possible well-doing. Yet so deeply is this precept embedded in the tradition of British financial policy that, for example, even Harcourt in 1894, disclaimed any "ulterior aims" in his reform of the Death Duties, though the ulterior effects of his policy were readily visible to all intelligent observers, who approved or disapproved of his policy according as they approved or disapproved of its tendency towards the gradual break up of large landed estates.

The persistence of the precept in this country may be accounted for, first, by the Parliamentary conception, strengthened by the terms of the Parliament Act of 1911, of "Money Bills," as Bills which provide for the raising of revenue and for no other object and, second, by a widespread opinion that the instrument of taxation should not be used for any other purpose, except that of raising revenue. But, as will be argued later, this narrow opinion has no logical basis. Thus it is sometimes thought to be a good argument against a protective tariff that it has other effects besides raising revenue. But this is, in fact, a very bad argument. For what opponents of a protective tariff need to prove

MAXIMUM SOCIAL ADVANTAGE

is, not that it has other effects, for that is obvious, but that these effects are worse than those of some alternative method of raising an equal revenue. To this simple but comprehensive doctrine we continually return. Take account of all the probable effects, * which can reasonably be foreseen, of any financial proposal which is under discussion; strike a balance of probable gain and loss to the community; compare this balance with that of alternative proposals, and act upon the results of this comparison.

CHAPTER III

PUBLIC FINANCE AND PRIVATE FINANCE

§ I. It is instructive to compare public with private finance, and this is the task of the present chapter. (Broadly speaking, it is true to say that, while an individual's income determines the amount of his possible expenditure, a public authority's expenditure determines the amount of its necessary income.) In other words, while an individual adjusts expenditure to income, a public authority adjusts income to expenditure. But to this broad statement there are qualifications.

To some extent an individual adjusts income to expenditure. If he marries, and especially if he makes himself responsible for a number of dependents, his estimate of necessary expenditure will rise and he may decide to increase his income by working harder and sacrificing leisure. On the other hand, when his children have become self-supporting, his estimate of necessary expenditure may fall, and he may decide to work less hard and to take more leisure. To some extent, again, a public authority adjusts expenditure to income. In bad times, when its income falls off, it may practise retrenchment, and in good times, when its income increases, it may embark on policies hitherto considered too expensive.

(The adjustment of an individual's income and expenditure need not be exact in any given year.)

PUBLIC FINANCE AND PRIVATE FINANCE

"There is no special sanctity in the period in which earth revolves round the sun." A year is a convenie accounting period for some purposes, but not f others. If an individual's expenditure exceeds h income, the excess may be met out of savings madin previous years, or from the sale of assets. Or he may run into debt, either by straightforward borrowing, or by leaving bills unpaid, in which case, in effect, he borrows from his creditors. And if his income exceeds his expenditure, the surplus income is available either for investment or for expenditure in the future.

Similarly, the adjustment of a public authority's income and expenditure need not be exact in any given year. When its income exceeds its expenditure, it has a realised surplus, which is available for future uses. Again, when its expenditure exceeds its income, a public authority, like an individual, may draw on its savings, if any, or sell some of its assets, or run into debt. But here a point of difference arises. For a public authority may raise either an internal or an external loan, that is to say, may borrow either from those who are subject to its authority, or from those who are not. Or again it may make ends meet by inflating the currency. But an individual cannot raise an internal loan. The nearest approach he can make to such a transaction is, if he keeps two banking accounts, by borrowing from one for the benefit of the other. Nor can an individual inflate the currency by decreeing that his I.O.U.'s shall be legal tender.

§2. In some economic text-books it is said that an individual so distributes his expenditure on various commodities and services, that the marginal utilities of

INTRODUCTORY

these expenditures are equal, and the total utility the whole expenditure a maximum. It is one of the nief advantages of a money economy that it makes it possible for this to be done, and for this reason we may anticipate the survival of money even in the socialistic communities which the future may bring forth. In reality most individuals do not thus equalise their marginal utilities with any great exactitude, but in the schemes of expenditure of all except the least intelligent, who have no scheme at all, there is an approach towards such equalisation.

A public authority, not being a person except in a legal sense, cannot estimate the marginal utilities of its various expenditures as an individual can. But the general principle, on which statesmen should attempt to act, is the same. The marginal utility to the community of all forms of public expenditure should be equal, and the distribution of a given total of expenditure between different objects is thus theoretically determined.⁴

§ 3. What, however, should determine the total of public expenditure? Here, again, the theoretical answer is clear. Public expenditure in every directionshould be carried just so far, that the advantage to the community of a further small increase in any direction is just counterbalanced by the disadvantage of a corresponding small increase in taxation or in receipts from any other source of public income. This gives the ideal

It should be noticed, however, that a statesman, in estimating the marginal utility of any form of public expenditure, must follow an objective standard of public welfare, or social advantage. An individual, on the other hand, follows a subjective standard of utility, linked with an objective standard of price. total both of public expenditure and of public income. The ideal distribution of this total public income between different taxes and other sources of income is similarly given by the requirement that the marginal social disadvantages, or disutilities, of raising income from all these sources should be equal.

It is not to be imagined that public authorities, any more than individuals, ever achieve perfect solutions of these complex problems of balancing marginal utilities and / sutilities. But some statesmen miss perfection by longer chalk than others. In practice these proble', of public finance are settled by a tug-ofwar betwee, rival spending Departments, and between spending pepartments and the Treasury, modified by pressure from other influential quarters-elected persons, organised interests, newspaper editors and so And, in practice, neither public authorities forth. nor individuals are often required to rearrange the whole of their schemes of expenditure from top to bottom. Certain expenditures are actually going on, and the problem is usually restricted to the desirability of making certain changes, which affect only a small proportion of the whole.

§ 4. For making deliberate changes in its income, and expenditure, and particularly for making increases. a public authority is generally in a much better position than an individual. The chief reason for this is obvious: • it has the whole wealth of the community on which to draw. But there is another though less important reason. In some theoretical discussions it is suggested that individuals go on working, until the marginal utility of more product, or more pay, just falls short of

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INTRODUCTORY

the marginal disutility of more work. But this is only true of those who work independently of others, boys picking blackberries, to take Marshall's familiar example, or artists, or some kinds of journalists. But most people have to fit in their hours of work with those of others, and often with collective agreements and sometimes with Acts of Parliament. Some would like to work more and others less than they do, but have to conform with general arrangements. Public authorities are usually free from this disability and can make their own financial arrangements without much regard to what others are doing. Expenditure on armaments is, however, an exception to this general rule.

§ 5. In the pure theory of individual finance, the principle of the equalisation of marginal utilities includes, as a special case, the equalisation of the marginal utilities of present and future expenditure, and hence determines the provision, which individuals will make for the future. Most people, however, discount the future to some extent. For its satisfactions, and equally its dissatisfactions, quite apart from any factor of uncertainty, look shrivelled 'to the normal eye beside equal satisfactions, or dissatisfactions, in the present, Moreover, one's life is, in fact, uncertain and one's descendants, after a certain point, uninteresting. Most individuals, therefore, make less provision for the future than they would do if their power of visualising it were stronger or if they expected their earthly life to last forever, or even for a hundred years. But, since the community outlasts the individual, and since, as was pointed out in the last chapter, the statesman

PUBLIC FINANCE AND PRIVATE FINANCE 21

should regard himself as trustee for the future, the latter is not entitled to discount it at so high a rate as most individuals in their private capacity normally do. Indeed, it is doubtful whether he is entitled to discount it at all. It follows that, in so far as future conditionscan be reasonably foreseen, statesmen should sometimes aim at making a more generous provision for the future than would be made by private individuals left to themselves. Important examples of this principle will be given later, when we come to deal with public expenditure. But the task of statesmen will often be rendered difficult by the political pressure of those who repeat the ancient question, "What has posterity done for me, that I should do so much for posterity?"

PART II PUBLIC INCOME

CHAPTER IV

SOURCES OF PUBLIC(INCOME)

§1. The income of a public authority may be defined either in a broad or a narrow sense. In 😳 the broad sense it includes all "incomings" or "receipts," in the narrow sense only those receipts, which are included in the ordinary conception of "revenue." Thus the attentive reader will have noticed that the word was used in the broad sense in Chapter I. § 3, where it was said that public borrowings. form part of public income, but in the narrow sense in Chapter III, § I, where it was pointed out that a public authority's income may fall short of its expenditure in any given year and the deficit be made up by borrowing. As between these two senses, the context is generally a sufficiently good interpreter but, where necessary, . ambiguity may be avoided by using the terms " public

receipts" and "public revenue" to denote public income in its broad and in its narrow sense respectively. The chief elements included in the conception of public receipts, but excluded from that of public revenue, are receipts from public borrowings and from the sale of public assets, such as war stores, and paper money " newly printed and delivered from the public printing press.

§ 2. The classification of the sources of public income is discussed at great length by many writers,

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PUBLIC INCOME

but the chief purpose of any such classification should be to throw light on the nature of public income and, judged by this standard, much of the discussion in the textbooks is of small practical utility.

The first and most important practical distinction is between taxation and other sources of income. A tax is a compulsory charge imposed by a public authority and, as Professor Taussig puts it, "the essence of a tax, as distinguished from other charges by Government, is the absence of a direct quid pro quo between the taxpayer and the public authority."¹ We have, on the other hand, as an important source of public income, the prices charged by a public authority for specific services and commodities supplied by it, including the prices charged for the use of public property. Gener, ally speaking, these prices are paid voluntarily by private persons, who enter into contracts, express or implied, with public authorities, whereas taxes are paid compulsorily.

Developing the broad distinction between taxes and prices, we have on the one side (\mathbf{r}) taxes ordinarily so called; (2) tributes and indemnities, whether arising out of war or otherwise; (3) forced loans, such as old time princes of doubtful credit used often to extract from Jews and others, but which are not much used in modern public finance; and (4) pecuniary penalties for offences, imposed by Courts of Justice. On the other side we have (5) receipts from public property passively held, e.g. public lands leased to tenants, or the British Government's Suez Canal shares; (6) receipts from enterprises carried on by a public

* Principles of Economics, II. p.483.

authority which does not make use of monopoly power to raise its prices above "the competitive level"; (7) fees or payments made for services, not in the nature of business services, performed by a public official, such as the registration of births; and (8) receipts from voluntary public loans.

Four other sources of public income may be distinguished which do not fall completely under either of our two main headings, namely, (9) receipts from enterprises carried on by a public authority which does make use of monopoly power to raise its prices above " the competitive level ": (10) receipts from " special assessments": (II) receipts from the use of the printing press, for the purpose of meeting public expenditure by the issue of paper money; and (12) voluntary gifts. Many enterprises are carried on by public authorities with the primary object of raising revenue by the use of monopoly power. The French govern-. ment monopolies of matches and tobacco are examples. That part of the price of such commodities, which exceeds their cost of production (including normal profits), is indistinguishable, in principle, from a tax on such commodities," A special assessment is an American invention, defined by Professor Seligman as " a compulsory contribution, levied in proportion to the special benefits derived, to defray the cost of a specific improvement to property undertaken in the public

*In practice, it is not a simple matter to divide, with any degree of precision, the price of a commodity or service monopolised by a public authority into its component parts, competitive price plus tax. * For, in the absence of competition, the competitive price can only be roughly estimated. And the cost of production of either a private competitor or a private monopolist might differ widely from that of the public authority.

PUBLIC INCOME

28

interest."¹ It is a device for securing for the public treasury part of the unearned increment in the value of fixed property, which arises, for example, in the neighbourhood of a newly opened thoroughfare. A special assessment resembles a tax in that it is a compulsory payment, but differs from it in that the payer has received a definite and direct guid pro guo. In the latter respect it resembles a price, but differs from it in that the payment is not voluntary and does not arise out of a contract with the public authority. The « issue of new paper money by a public authority is not quite the same thing as the imposition of a tax, though its effect, through reducing the value of money, is similar to that of a general tax upon all commodities and services.² Voluntary gifts form, unfortunately, only an infinitesimal part of the income of public authorities. They are exemplified in this country by " conscience money," which, however, is usually only a delayed part-payment of taxes, which have already been evaded.

§ 3. The boundary lines between the various kinds of public incomes just enumerated are not, in most cases, clear cut, but one kind shades gradually into another. Thus taxes shade gradually into prices, since the services rendered by public authorities to taxpayers often stand in a somewhat indefinite relation to the payments made by the latter. Local rates for the supply of water, where no meters are used, illustrate this.

Again, Professor Taussig's description of a tax,

* Essays in Taxation, p. 283.

* See Chapter XV for a further discussion of this point.

SOURCES OF PUBLIC ÍNCOME 🐁

quoted above, would cover penalties for offences, the underlying idea of which is clearly distinct. The distinction between taxes and penalties is one of motive ; 🔨 a public authority imposes taxes mainly to obtain. revenue and enacts penalties mainly to deter from If motorists were fined fr for every certain acts. infraction of the speed limit, and the money were collected periodically, such fines might be regarded as a tax on high speed, comparable to a tax on petrol. But if, at each successive offence by the same motorist, the fine were increased, and the offender finally put in prison or deprived of his licence to drive, so that no more fines were obtainable from him, those already collected would clearly be in the nature of penalties and not i. taxes. Similarly with customs duties, in the language of which, as Swift remarked, two plus two is often less than three. If, as the rate of a particular duty is increased, the revenue yielded increases, the duty is * predominantly a tax. But when the rate is increased above the point at which the yield in revenue is a maximum, it is clear that some element of penalty is present, and we finally reach a duty of prohibitive amount, whose yield is very small or even non-existent, and which is closely akin, in the case of an import duty, for example, to a simple prohibition of importation, with a penalty for infraction. Intermediate between a tax and a penalty is a duty primarily designed to check. consumption, such as the liquor duties, the raising of . which in 1909 is said to have caused many Scottish farmers to drink milk instead of whisky, or the increase in railway fares during the war which was defended partly on the ground that people were travelling too

30

much, and hindering the use of rolling stock for military purposes.

Deterrence again, shades into discrimination, as in schemes of Imperial Preference, in special taxes on land values or on mineral royalties or on war profits, or in lower rates of income tax on "earned" than on "unearned" incomes.

§ 4. It has already been pointed out that the monopoly profits, if any, of a public enterprise are closely akin to a tax. There is no substantial distinction, from this point of view, between the French Government's monopoly profits from the sale of tobacco and the British Government's revenue from tobacco duties imposed on private traders. Public enterprises, which make monopoly profits, shade into those which do not. The test is not whether a public authority has an absolute monopoly of the supply of any commodity or service, for, in the first place, very few monopolies are absolute, when substitutes, actual and potential, are taken into account. A legal Government monopoly of railway transport, for instance, is open to competition from private transport. both by water, road and air. And, in the second place, monopoly need not be absolute, in order to permit of the use of monopoly power to raise prices above cost of production. This power is available, as a general rule, wherever a considerable proportion of the total supply of any commodity or service is under a single control. The test is whether such monopoly power is, or is not, actually used. For a public authority conducting and enterprise may have a large degree of monopoly power, but may decide that it is in the public interest that the

product of the enterprise shall be sold at, or even below, cost price. The practical difficulty of applying this test lies in the determination of the cost of production of the products of a public enterprise. What allowances for interest, depreciation, etc., should be made? Anyone who doubts the reality of these difficulties should try to determine the cost of production of British postal services.

There is no sharp distinction between fees on the one hand, and taxes and public monopoly profits on the other. For the cost of performing a service is often less than the fee charged for performing it. Nor is there any sharp distinction between fees and receipts from public enterprises generally. For there is no sharp distinction between those services which are " in the nature of business services " and those which Thus some writers have proposed to class are not. all postal receipts as fees. Again, there is no sharp distinction between receipts from public enterprises and receipts from public property passively held, for - some supervision and management are required even in the most humdrum administration of public lands and, if schemes of afforestation, irrigation, etc., are undertaken, these constitute an enterprise no less than the delivery of letters and telegrams.

The general conclusion of this discussion is that the sources of public income may indeed be classified, but that many of the distinctions involved are not clear cut and that, here as elsewhere, the search for a classification is more instructive than the classification when found.

CHAPTER V

TAXATION AND SOME DISTINCTIONS BETWEEN TAXES

§ I. We have seen that a tax is a compulsory contribution imposed by a public authority, irrespective of the exact amount of service rendered to the tax-paver in return, and not imposed as a penalty for any legal offence. Auberon Herbert, who was a philosophic anarchist, thought that taxation was never morally justifiable, but this is a rare and eccentric opinion, which may be ignored. Yet taxation, thought justifiable, might not be necessary, or might be necessary · to only a small extent, if other sources of public income were more prolific, if, for instance, public authorities owned larger quantities of income-yielding property, or if it was more the fashion among wealthy people to make large voluntary gifts to the State. If the London County Council were the sole ground landlord within its area, London rates would be very much lower than they are." Again, if voluntary contributions to the Treasury were made to bear the same vague, but perceptible, relation to the conferment of "honours," which contributions to the funds of some political parties do now, the burden of taxation in Great Britain might be lessened, at any rate until a greatly increased

⁷ A Canadian student who attended my lectures told me that the Municipality of Guelph, Ontario, imposes no local taxation, but lives entirely on the rent of municipally owned land leased to the Canadian Pacific Railway.

supply had seriously reduced the purchase price of a Viscounty or a Knighthood of the British Empire. Even so, the ingenious invention of new "honours" might keep the tide flowing for a time, but at this stage of the business we should be gathering public income, not from voluntary gifts, but from a skilfully conducted public enterprise. As things are now ordered, however, a large amount of taxation is necessary in all modern communities and, as public expenditure increases, taxation increases also.

The classification of taxes in many text-§ 2. book discussions is even more arid ground than the classification of public income in general, but a few distinctions may be noticed in passing. That most commonly made is between direct and indirect taxes. The idea usually underlying this distinction is that a direct tax is really paid by the person on whom it is legally imposed, while an indirect tax is imposed. on one person, but paid partly or wholly by another, owing to a change in the terms of some bargain between them. A tax is not held to be indirect merely because it is collected from one person and paid by another. Thus, under Schedule A of the British Income Tax, the so-called "Landlord's Property Tax," which is a tax on the income derived from the ownership of land and buildings, is collected from the occupier, who, however, has a statutory right to deduct it from. the rent, which he pays to the owner, any contract not to deduct it being legally void. Neither the imposition of this tax, therefore, nor any change in its amount, causes any change in the terms of the bargain already

* Compare, however, § 6 of this Chapter.

PUBLIC INCOME

entered into between the occupier and the owner. It may be described as a direct tax legally imposed upon the owner, but collected from the occupier.

An indirect tax, in short, is conceived as one which can be shifted or passed on ; a direct tax as one that cannot. This distinction is less fundamental and useful than is commonly supposed. The reasons for this will appear more clearly when we come to consider the incidence and effects of taxation. Nor is the distinction always clear in common usage. An income tax is generally regarded as a direct tax; but the United States Supreme Court in 1861 held it to be indirect, when they wished to declare it constitutionally valid. This, however, was only the economics of clever lawyers in a tight place. An inheritance tax is generally regarded as a direct tax, and so are other taxes on property. On the other hand, taxes on commodities and transactions are generally regarded as indirect. But doubts begin to arise when we reflect that commodities only differ from most other forms of material property in being less durable, and that an inheritance tax is merely a tax on a particular class of transactions. Nor did public opinion ever decide in which category to place the Excess Profits Duty.

The distinction between direct and indirect taxes is made by some writers to turn on whether or not it is intended by the statesmen, who impose it, that a tax shall be shifted. But this is to introduce an additional and needless difficulty. For the intentions of statesmen and the facts of incidence may be at variance. Some statesmen, indeed, do not realise the problem of incidence at all, and think that all taxes are

paid by those, on whom they are legally imposed. I remember asking a member of the British Government in 1911, whether either the Cabinet or the Treasury had made any estimate of the incidence of the weekly levies imposed on employers and employees under the National Insurance Act of that year. But the Minister could not see that there was anything to estimate. "The men pay 4d." he said, "and the employers pay 3d. and the State pays 2d., and so the men get 9d. for 4d." It is best in this matter for the economist to ignore the intentions of the statesman.

It is often vaguely supposed to be a sign of financial • virtue to "keep a balance" between direct and indirect taxation, an idea encouraged by Gladstone's wellknown simile, in which he likened these two sources of revenue to "two attractive sisters," as between whom he was "perfectly impartial," believing that, as Chancellor of the Exchequer, it was "not only allowable, but even an act of duty, to pay my addresses to them both."

This notion of "keeping a balance" is bound up with ideas about the proper distribution of the burden of taxation between persons, which will be discussed tlater, and with the belief that direct taxes are paid by the rich and indirect by the poor. There are no theoretical, but some practical, grounds for this last belief. Most existing direct taxes in modern communities do, in fact, involve larger contributions from the rich than from the poor, in proportion to their incomes, and the opposite is the case with most existing indirect taxes. But the position would be reversed, if direct taxation were limited to a poll tax of equal

amount on every citizen, and indirect taxation to duties on luxuries which only the rich could afford to buy. § 3. There are various other distinctions between taxes which, though sometimes discussed at great length, are a good deal less important than they seem at first sight. Consider, for example, the distinction between taxes on income and taxes on capital. It can make no difference whether a given revenue is raised by a flat-rate tax assessed on the annual value or by a similar tax assessed on the capital value of property, so long as the ratio of annual value to capital value is the same in all cases affected by the tax. If, for instance, this ratio is one to twenty, a tax of one and eightpence in the pound on an income, or annual value, of £500 will bring in the same revenue as a tax of a penny in the pound on a capital value of f10,000. - If, however, the ratio varies, a tax on capital value will be heavier than a tax on annual value, yielding the same revenue, in those cases where the ratio of capital to annual value is abnormally high, and less heavy where it is abnormally low. For example, owners of undeveloped or "under-developed" land will be hit harder than the owners of fully developed This is why those, who wish to compel land-. land. owners to "put their land to the fullest use," advocate a tax based on the capital, rather than the annual, value of the land. Similarly holders of gilt-edged will be hit harder than holders of speculative securities.

The above distinction between taxes assessed on income and capital respectively is often confused with the quite separate distinction between taxes *paid out*

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of income and capital respectively. But there is no reason why a tax assessed on capital should not be paid out of income, nor conversely. A man liable to death duties may pay them out of income; a man may sell securities or borrow from his bank in order to pay income tax. The precept "tax income, not capital," sometimes elevated to the dignity of a maxim of public finance, is, therefore, ambiguous. It may refer to the source of payment, and amount to an injunction that taxation should check the accumulation of capital as little as possible. Or it may refer to the basis of assessment, and indicate a preference for an income, rather than a capital, basis. Both these alternative meanings of the precept will claim attention later.

§ 4. Another distinction sometimes drawn is between taxes assessed on property and taxes assessed on commodities. This distinction, as already remarked, -turns on relative durability. Land is evidently property from this point of view, sugar evidently a commodity. Houses and machines are intermediate, being less durable than land, but more durable than sugar, In practice, this distinction often turns largely on -whether the tax is imposed periodically or once for all. In the former case the object of the tax may generally be regarded as property, in the latter as a commodity. Nor in the former case need the period be regular. An inheritance tax, though levied at irregular intervals, may reasonably be called a tax on property. British local rates, being a periodic tax on the annual value of land and houses, treat houses as property, but a tax levied once for all on the value of newly built houses would treat these as commodities.

Taxes on commodities may be either "specific " or *ad valorem*. A specific tax is based upon some physical measurement such as a unit of weight or volume, *e.g.*, a tax of a shilling a pound on tea or fifty shillings a gallon on beer. An *ad valorem* tax is based upon a unit of value, *e.g.*, a tax of a third of their value on imported German mouth-organs.

§ 5. A distinction of a different kind is between taxes intended to be only temporary and taxes intended to be comparatively permanent. A special tax, whether assessed on an individual's income, his capital or his war profits, designed to pay off in a short time a large amount of public debt, would be an example of the former. The British income tax, at any rate since Gladstone's death, is an example of the latter, though many taxpayers hope that the present rates of tax will not be permanent. The chief value of this distinction lies in its bearing on the probable conduct of taxpayers, which will vary with their expectations regarding future taxation.^t

§ 6. A distinction is sometimes suggested between taxes on persons and taxes on things. But this form of words may be used in at least three different senses. In the most natural sense, taxes on persons would include, on the one hand, a poll tax, either equal in amount for all persons or assessed in some quite arbitrary manner and, on the other, all taxes based on purely personal characteristics of the 'taxpayer, such as his height, weight or religion, or the colour of his eyes or hair, while taxes on things would include all taxes based on criteria external to the taxpayer,

^I See Chapter X, §§ 3-8.

such as his income, the rent which he pays for his house, or the amount of tobacco which he smokes. But in this sense the distinction would be without practical value, since all actual taxes, with few and unimportant exceptions, would be on things and not on persons.

A second sense, in which the distinction has sometimes been used, implies that some taxes are paid by persons and others by things.¹ But this is a very gross error. It is natural, when thinking of the basis of assessment, to speak of taxes on land, on imports, on industry and trade. But neither inanimate objects, such as plots of land and imported goods, nor general terms such as industry and trade, are endowed with pockets or banking accounts, out of which they, as distinct from persons, can pay taxes. It is a platitude that alltaxes are paid by persons, not by things.

In a third sense, taxes on persons are sometimes treated as equivalent to direct, and taxes on things to indirect, taxes. But the terms "direct" and "indirect" are here used in what is called by some "an administrative sense." Thus some "practical financiers . . regard those taxes as direct whichare levied on permanent and recurring occasions, while charges on occasional and particular events

² See, for example, Giffen's observations on pp. 93-4. of Memoranda on the Classification and Incidence of Imperial and Local Taxes (C. 9258, 1890):—" rates on real property are for the most part burdens on the property itself, and therefore not taxation in the proper sense of the term; in other words not contributions to the expense of the 'State by the individuals who bear the rates in the same way that the Income Tax is a contribution by those who bear it. . . Duties upon the succession to property at death are not taxes upon the dying, because they are not levied till they have ceased to own the property, and not taxes upon the inheritors because they only inherit by the will and permission of the State PUBLIC INCOME

are placed under the category of indirect taxation."¹ There is no logical connection between this view of the distinction between direct and indirect taxation and the view considered above, which makes the distinction turn on incidence. This tiresome duplication of terms is a further argument for their abandonment. Other writers have drawn a distinction, roughly equivalent to that between direct and indirect taxes in an administrative sense, between "personal" and "specific" taxes, and again between "subjective" and "objective" taxes. But the whole idea is woolly and, so far as the study of first principles is concerned, unprofitable.

 7. There are certain taxes, the place of which in tax classifications may at first sight appear doubtful. Stamp duties, taxes on business profits, on sales and turnover are examples. But a little reflection will make it clear that a stamp duty or stamp tax is not a special kind of tax, but only a special method of collecting taxes. People are required in certain circumstances to buy stamps of a certain value from a public authority and to attach them to certain documents. Many taxes on transactions are collected by this means, and any tax could be so collected. The question is · simply one of administrative convenience. Thus some of those, who have advocated a weekly income tax on wage earners, have proposed to collect it by means of additional stamps on health insurance cards. Again a tax on business profits is only a tax on a particular kind of income, while a tax on sales or on turnover is only a tax on the commodities sold or turned over...

I Bastable, Public Finance, p. 291.

CHAPTER VI

SOME CHARACTERISTICS OF A GOOD TAX SYSTEM

§ r. Any system of public finance must be looked at as a whole, before any final judgment can be passed upon its merits or demerits. So, too, any tax system <u>must be looked at as a whole</u>. For different taxes may, in certain of their effects, correct and balance one another.

Assuming that in a given year a given revenue is to be raised by taxation, alternative tax systems will result in alternative distributions of the total burden of taxation, which will itself be greater under some systems than others, and in other alternative effects upon the economic welfare of the community. These matters will be discussed in the next seven chapters. But in this chapter a few preliminary points will first be noticed.

§ 2. The comparative advantages of single tax and multiple tax systems have been much argued. Various types of single tax have been proposed. The Physiocrats proposed a single tax on the economic is rent of land, because they thought that this was where all taxes ultimately fell, and that it would, therefore, save trouble and misunderstanding to put them there straight away. But this idea involved a false theory of incidence. Henry George made a similar proposal,

PUBLIC INCOME

partly because he thought that a tax on rent did not check industry, whereas all other taxes did, in which opinion there is a grain of truth, as will be argued later, and partly for reasons of a supposedly ethical character, to which less weight need be attached. There are, however, two grave objections to a single tax of this kind. The first is that it would not, in most modern communities, bring in enough revenue to balance the public accounts. The second is that it would lead to a very bad distribution of the burden of taxation. For a millionaire, who owned no land, would pay no taxes, while a poor man, who had invested all his savings in the purchase of his house, would pay in taxation a considerable proportion of his income.

A much stronger case can be made out for a single tax assessed on income. Such a tax could be made to yield all the tax revenue normally required, and, by means of graduation, differentiation and other devices, could be made to distribute the burden of taxation between individuals in whatever way was thought best. There are, however, in addition to certain arguments against *any* single tax, three objections to exclusive reliance upon an income tax. The first is that 'such a tax imposed upon small incomes is relatively difficult and expensive to collect.^I The second is that it secures no special contribution from inheritors of wealth, a pre-eminently taxable class. The third is that it tends to check saving more than certain other taxes do.⁴ The first objection might be overcome

> ¹ See Chapter XII, § 1. ⁸ See Chapter X.

to some extent by administrative improvements, and indeed would not arise at all, if it were desired to distribute the burden of taxation in such a way as to exempt small incomes altogether. The second could be overcome by treating wealth acquired by inheritance or gift as taxable income at the time of its acquisition. There is a good deal to be said for doing this and it has sometimes been done, e.g., in the United States income tax of 1861. The third could be overcome by exempting savings from taxable income, and thus imposing a single tax, not upon personal income, but upon personal expenditure. But, in the present state of our administrative technique, this scheme also encounters grave practical difficulties and would involve great expense and leave open large loopholes for undetected fraud. The easiest way of taxing expenditure is to tax commodities or services straightforwardly, and not in a roundabout fashion through But taxes on commodities must' personal incomes. necessarily be multiple. No single tax on a particular commodity would bring in sufficient revenue. Moreover, if the attempt were made and the taxed commodity were one, for which substitutes were easily available, heavy taxation would drive it out of use, while, if it were a necessity of life, for which no substitutes were easily available, a very bad distribution of the burden of taxation would result, the poor paying a much larger proportion of their incomes than the rich.

A variant to a single tax assessed on income is one assessed on the capital value of property., The latter tax, however, has a smaller range than the former,

PUBLIC INCOME

since it does not fall upon incomes from work, but only upon the source of incomes from property. It is also the teaching both of theory and experience that income is a better basis for tax assessment than the capital value of property. For the former, given clear legal definitions, only raises questions of fact. But the latter raises questions not only of fact but of opinion, as regards the valuation of many forms of property which cannot be said to have a market value. Thus the comparative success of the British income tax as a financial instrument may be contrasted with the comparative failure of the general property tax in the United States, according to the testimony of Professor Seligman and other American authorities.

§ 3. The preceding arguments against particular forms of single tax are reinforced by certain general arguments against any form of single tax. For, in the first place, anomalies as between persons, which are liable to arise under a single tax, are liable to be corrected under a multiplicity of taxes and, in the second place, evasions, which may be comparatively easy under a single tax, are more readily detected under the check and counter-check, which a multiple tax system may provide. Thus valuations for death duties and the previous income tax returns of the deceased may be checked against one another. Again, the ill contrived land value duties of the British Budget of 1909, though they never brought in any appreciable revenue, necessitated a land valuation which, though never completed, is said to have more than paid for itself by the additions which it indirectly brought to the death duty revenue.

Thus the weight of argument against a single tax is pretty heavy. An apparent exception may, perhaps, be made in the case of local authorities, exercising comparatively few functions over a comparativelysmall area. Here there is a strong case, on grounds of convenience, for a single tax on " immobilia " or immovable property. Local rates in this country are a familiar case in point, though it is often argued that such rates would be better based on the capital. or even the annual, value of land only, than on the annual value of land plus houses, as they are at present. For local rates are, in great measure, a tax on houses,¹ and houses are not a good object of taxation. But local rates are not, in reality, a single tax, for local authorities derive a considerable part of their revenue from grants-in-aid out of the proceeds of national taxation.*

§ 4. Though, however, a multiple tax system is generally preferable to a single tax system, too great a multiplicity of taxes is not desirable. Advocates of "broadening the basis of taxation " are to be distrusted. Of this fellowship was Arthur Young, who said, " if I were to define a good system of taxation, it should be that of bearing lightly on an infinite number of points, heavily on none."³ But there is not necessarily any less total pressure under such a system, for,

⁴Local rates are only in part a genuine tax. In part they represent prices paid by ratepayers for specific services rendered to them by local authorities.

^aFurther, if a local authority derives a net revenue, as many do, from the ownership of property or the conduct of enterprises, this revenue may, or may not, contain some element of taxation. See Chapter IV, \S 3.4.

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9 Quoted by Bastable, Public Finance, p. 344.

as mathematicians at any rate are aware, the sum of an infinitely large number of infinitely small weights may be greater than a single moderate weight. Moreover, a large number of taxes, however small, usually involves a large cost and a large amount of vexation in collection. The vice of excessive multiplicity of taxes is illustrated, in fact, by modern customs tariffs and, in idea, by the countless schemes for "fancy taxes" communicated to the press by amateur financiers.

The path of wisdom in this matter, for a modern community with a well developed economic life and a reasonably efficient administrative system, is fairly clear. It is best to rely on a few substantial taxes for the bulk of the tax revenue. In so far as it is desired to tax the rich, income and inheritance taxes are the best means ; in so far as it is desired to tax the poor. taxes on a few commodities of wide consumption, preferably commodities not necessary to health and efficiency. Some commodities, of which alcohol is the most important example, may indeed be taxed on their merits, or, as some would say, on their demerits, apart from any question of the distribution of the burden of taxation between different sections of the community. Other taxes with special objects may sometimes legitimately be added, but it is desirable to keep their number within bounds."

Almost everywhere, and even in Great Britain, whose tax system is simpler than that of any other

¹Compare the judgment of Lord Leverhulme (*The Six Hour* Day, p. 18): "The only wise, same basis of taxation is to avoid all tariffs on goods, except luxuries (and then solely for revenue purposes), and to raise further revenue mainly by graduated income tax and death duties."

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important modern community, so-called "historical causes" have led to a needless multiplicity of taxes and to needless complexity in methods of assessment. But, especially where multiplicity is reduced, particular taxes may need to be somewhat complex,—the British income tax and death duties for example—if the tax system as a whole is to be satisfactory.

§ 5. A further point of occasional controversy may be noticed here. Is it a characteristic of a good tax system that taxes should be "felt " as much, or as little, as possible? The plain man will be inclined to think that the best tax is that which is least felt, that is to say which causes the least inconvenience and conscious * sacrifice to those who pay it. But some austere thinkers take the view that mankind can only learn through suffering, and that political responsibility can only be " brought home to us through conscious payment of the price of greatness-or of folly, as the case may be Thus some people believe that, unless the Germans pay, or at least try to pay, an immense war indemnity, they will light-heartedly make war again in a few years time, and a Scottish Professor of Economics thinks ! that we shall be tempted to do the same, if we rashly, destroy, by means of a capital levy, the Great War Debt, which will otherwise be one of the most impressive of our national war memorials. It has also been maintained that, if income tax were resolutely imposed upon all, however poor, all would eagerly co-operate in checking wasteful expenditure, while the poor would also gain in moral stature. Men take sides in this controversy according to opinions not exclusively economic. Personally, I take sides with the plain man. ſn

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particular, I believe that, in a modern democratic state, the reaction to a universal income tax, newly imposed, would not be at all that imagined by the austere. The public mind would, I think, be less pre-occupied with checking public expenditure than with throwing out of power those responsible for the austere reform and with redistributing the burden of taxation according to some brusque canon of outraged popular equity. On the other hand, an increase in a well-established tax such as local rates undoubtedly creates a popular and somewhat indiscriminating demand for "economy."

§6. The practical application of a decision, in either sense, of the main controversy is not, however. wholly clear. Thus, it is commonly supposed that an income tax is more keenly felt than taxes which, being levied on commodities, are wrapped up in their prices, as some of the medicines of childhood are wrapped up in jam. (The austere should pass a law requiring grocers to say of their jam, not "this is eighteen-pence a pound," but "this is one and fourpence a pound and the tax on sugar, to pay the interest on the War debt, is two-pence a pound."). But on the other hand, as will be argued later¹, an income tax hits only marginal expenditure and marginal savings all round, whereas a tax on a particular commodity hits expenditure, including non-marginal expenditure, on that commodity only,² and is thus apt to cause a greater sacrifice of satisfaction. Moreover, when income tax

¹ See Chapter X.

² Though, as a result of the tax, expenditure on other commodities may be reduced.

GOOD TAX SYSTEM

is "deducted at the source," that is to say intercepted before his money income actually reaches the taxpayer, it is apt to be less keenly felt, than if he first receives his income in full and then at a later date, when he has already spent most of it, receives a demand note from the tax collector. An inheritance tax, again, is often less keenly felt than might be supposed, since its payment is generally made through the agency of executors, before the inheritors receive the balance of the property, and since the payment coincides both with a positive accretion of personal wealth to the inheritors and with other events, which should generally force considerations of tax payments into the background of their nunds.

CHAPTER VII

THE INCIDENCE OF TAXATION

§ I. The problem of the incidence of a tax is commonly conceived as the problem of who pays it. More precisely we may say that the incidence of a tax is upon those, who bear the direct money burden of the tax? Every tax produces a number of economic effects, and it has been questioned whether it is either practicable or desirable to try to separate the special problem of incidence from the more general problem of effects. But clearly the attempt must be made, if anything is to be said on the distribution of the direct money burden of taxation, a subject on which much has been written.

A distinction must be drawn between the direct and the indirect burden of a tax, and also between the money burden and the real burden. The total direct money burden imposed by any tax is equal to the total yield of the tax to the public treasury. To every shilling of the tax to the public treasury. To every shilling of revenue raised there corresponds a shilling of direct money burden, or incidence, falling upon someone. It is true that to part with a shilling in payment of a tax means a greater sacrifice of economic welfare for a poor man than for a rich man. That is a

^t Except in the limiting case of escheat, that form of inheritance, tax, under which the property of an intestate, who possesses no discoverable relatives however remote, reverts at his death to the State.

question, not of the incidence, but of the direct real burden of the tax. Again, it is true that, when the price of sugar is raised by taxation, a family may be compelled to consume less sugar, and thereby to make a sacrifice of economic welfare. That is a question, not of the incidence, but of the indirect real burden, of the tax. Again, it is true that, when the tax on sugar is collected from the dealer in respect of his stocks and some time elapses between the collection of the tax and the sale of the stocks, the dealer is out of pocket by the amount of the interest, which he could otherwise have obtained during that period on the money paid to the tax collector. That is a question, not of the incidence, but of the indirect money burden, of the tax.]

§ 2. Thus the incidence of a tax on sugar collected from the seller is wholly on the buyer, if, as a direct result of the tax, the price rises by at least the full amount of the tax; wholly on the seller, if the price does not rise at all; partly on the buyer and partly on the eller, if the price rises by an amount less than the full amount of the tax.

We may illustrate at this point the unsatisfactory charact i of the distinction, based on incidence, between direct ind indirect taxes.¹ Before we can decide whether a given tax is direct or indirect, in this sense, we r st know its incidence, and this will frequently dependent of the tax, but on other circs stances. It is commonly assumed that a tax on *i* mmodity is an indirect tax. But if, when collec for sellers, it does not raise the price at all, *i* Compare Chapter V, § 2.

or if, when collected from buyers, it lowers the price by the full amount of the tax, then it must be classed as a direct tax. And, as will be seen later, such circumstances are not impossible. It is commonly assumed, on the other hand, that an income tax is a direct tax. The extent to which income tax payers in general can shift the incidence of the tax is, no doubt, so small as to be practically negligible. But, if an increase in income tax causes a reduction in saving, v which in turn causes a rise in the rate of interest, those * income tax payers who are investing new savings at this higher rate will have shifted part of the incidence of the tax on to those who are making the demand for . new capital. Again, the incidence of a tax on a monopolist varies with the character of the tax and, therefore, to take two examples which will be discussed later," a tax proportionate to output must be classed as indirect, while a tax independent of output will be direct.

(In the theory of incidence, two general proper tions cover most of the ground. The first is that other things being equal, the more elastic the demand for the object of taxation, the more will the incidence of the tax be upon the seller. And the second is that, other things being equal, the more elastic the supply of the object of taxation, the more will the incidence of the tax be upon the buyer. For, the more elastic the demand, the more will the demand fall off, as a right of a given rise in the price of the object of taking and the less, therefore, will it be worth while for to raise the price. And, on the other hand, the price $\frac{1}{2} \sec \frac{1}{2}$ of this Chapter.

elastic the supply, the more will the supply fall off, as a result of a given rise in the cost of production (including tax) of the object of taxation, and the less, therefore, will it be worth while for buyers to resist the raising of the price. The sellers, in short, try to put the incidence on the buyers by reducing supply, the buyers try to put it on the sellers by reducing demand. The relative ability of the two groups to carry out their objects, with the minimum loss to themselves, determines the result. When either or both of these groups are consolidated into monopolist combinations, the case requires some further discussion, but we may first consider some examples of the working of the two propositions just laid down, when competition prevails both among buyers and sellers.

It makes no essential difference whether the tax is legally imposed on buyers or sellers, though this may affect the length of time, which will elapse before the process of shifting the direct money burden, or part of it, from one side to the other is completed. Every tax tends, for a time, to "stick where it falls." But a tax on an ordinary commodity, such as sugar, causes a more rapid adjustment of price than a tax on houses, for example, where bargains as to rent cannot be altered during the currency of a lease.

Cases of absolutely inelastic demand are seldom, if ever, found in practice. But the demand for luxuries is more elastic than the demand for necessaries and, therefore, other things being equal, a tax on necessaries will raise their price by a larger amount than an equal tax on luxuries. Again, the demand PUBLIC INCOME

for new durable objects, such as houses, of which a large stock is already in use, is generally more elastic than the demand for commodities which are perishable or quickly consumed.

Cases of absolutely inelastic supply are less remote from reality. Thus the supply of land in well populated districts may be regarded as absolutely inelastic. It follows that a tax on land, as distinct from improvements, will not raise the price of land, and its incidence will be entirely on the owner.

Where, however, the supply of a commodity is at all elastic, it is generally very elastic in the long run, and considerably more elastic than the demand. When, therefore, conditions of production have had time to adjust themselves to changes due to taxation, the greater part of the incidence will generally be upon buyers, and not upon sellers. But, during the period of adjustment, the elasticity of supply may be small and then a large part of the incidence may be upon the sellers. Thus, in the case of commodities produced by means of an expensive plant and much fixed capital, the elasticity of supply may remain small for a considerable time after a tax has been imposed upon them.

Part of the incidence of a tax imposed upon the sellers or buyers of a commodity may fall, not upon these sellers or buyers, but upon the sellers of some other commodity, which is necessary to the production of the former, or upon the buyers of some other commodity, to the production of which the taxed commodity is necessary. Thus part of the incidence of a tax on jam may fall upon the sellers of glass jars,

in so far as the latter are compelled by the tax to reduce their price to the jam makers.

Leaving out of account the complication just mentioned, our two general propositions may be combined into one. The direct money burden of a tax imposed on any object is divided between the buyers and the sellers in the proportion of the elasticity of supply of the object taxed to the elasticity of demand for it. Thus in the particular case when the elasticity of supply is equal to the elasticity of demand, the burden is equally divided, and the price of the object taxed rises by half the amount of the tax.

§ 3. The preceding theory has been stated, so as to apply to the incidence of taxes on the internal tradeof a community, but substantially the same theory applies to the incidence of taxes on international trade, or, more generally, on trade between members of different communities, in the form of customs duties on imports or exports. In the case of internal trade we have considered the exchange of goods for money, the elasticity of demand of the buyers, who give money for goods, and the elasticity of supply of the sellers, who give goods for money. In the case of international trade it is more convenient to consider the exchange of goods for goods, and the elasticities of demand of the two groups of buyers for the goods respectively furnished by the other group in exchange for their own. Thus in the exchange of Canadian wheat for British woollen goods, assuming that no other goods are exchanged between the two countries, the elasticity of supply of Canadian wheat

in Great Britain is the same thing as the elasticity of demand for British woollen goods in Canada.

Taxes on imports and exports may, then, be regarded as obstacles to exchange and, in accordance with the preceding theory, the direct money burden of any such obstacle is divided between the two parties to the exchange in inverse proportion to the elasticities of their respective demands. In other words, it is divided in direct proportion to the urgencies^r of their respective needs, which are satisfied by the exchange. For, the more urgent the need of either party, the smaller the elasticity of his demand. Other things being equal, the less elastic the British demand for Canadian wheat, the greater the proportion of the lincidence of a tax either on British woollen goods or Canadian wheat in transit between the two countries, which will fall upon the British party to the exchange. Similarly, the less elastic the Canadian demand for British woollen goods, the greater the proportion which will fall upon the Canadian party to the exchange.

§ 4. It is thought by some to be a practically universal rule that the incidence of customs duties is on consumers of foreign goods in the countries where such duties are imposed, and hence that attempts to "make the foreigner pay" such duties can practically never succeed. The preceding argument does not support this idea in general, but it does support it in important particular cases. The inhabitants of a region, in which is produced a large proportion of the world supply of some commodity essential to foreigners, could make foreigners pay a large part of

* Ignoring differences in the wealth of the two parties.

export duties on this commodity, or of import duties on what foreigners offered in exchange for it. The inhabitants of Great Britain were in such a favourable. position, when this country was practically the only source of supply of wool to Flanders during the Middle Ages, of machine-made manufactured goods to the continent of Europe in the early nineteenth century, and of steam coal to the world's navies in the later nineteenth century. The inhabitants of oil-producing regions¹ and, to a less extent, of regions producing a large surplus of wheat for export, are in a similar position at the present time. On the other hand, the inhabitants of a region, in which is produced no commodity very essential to foreigners, or only a small proportion of the world supply of essential commodities, are not in a position to throw any appreciable part of any customs duties, which they may impose, upon foreigners, while, if foreign products are essential to them, foreigners are in a position to impose customs duties, a large part of the incidence of which will fall upon the inhabitants of this less fortunate region.

In the present conditions of international trade, the incidence of customs duties imposed in countries whose exports are chiefly manufactured goods and whose imports are chiefly food and raw material, can hardly be, to any appreciable extent, upon the foreigner. For the foreign demand for their manufactures is, in most cases, much less keen, that is to

¹Assuming, what is often not the case, that the inhabitants, or at least some of them, control the oil production and are able to deal with it in accordance with their own economic interests.

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PUBLIC INCOME

say much more elastic, than their demand for the foreigners' food and raw material. The inhabitants of Great Britain, in particular, are not now in a position to make the foreigner pay British customs duties, except in rare and unusual cases. It has been suggested that the British import duty on Greek currants is largely paid by the Greeks, but even this exception to the general rule is doubtful.

For countries, whose exports are chiefly food and raw materials, the chance of throwing a considerable part of the incidence of customs duties upon foreigners is, as a rule, somewhat larger, and this chance has probably increased as a result of the war. But it is i to be remembered that the demand of the inhabitants of a country for a commodity from any particular foreign market is much more elastic than their demand for that commodity from the outside world as a whole. Thus the inhabitants of a number of important countries acting in combination would have a better chance, than the inhabitants of any one acting alone, of throwing the incidence of their customs duties upon foreigners outside the combination. But such feats of international co-operation are not worthy of encouragement.

§ 5. It remains to consider how far the theory of incidence should be modified in the case of taxes on monopolists. Where a tax is imposed upon a commodity, whose seller is a monopolist, the effect of the tax upon the price of the commodity, and hence its incidence, varies according to the character of the tax. Assuming that the monopolist will fix his price, so as to secure for himself the maximum monopoly profits,

THE INCIDENCE OF TAXATION

the incidence of a tax, whose total amount is proportionate to the volume of his output, or, more generally, whose total amount increases as his output increases, will be similar to that of the taxes discussed in preceding sections of this chapter. Except in the unlikely event of either the supply being absolutely inelastic or the demand absolutely elastic, the tax will raise the price of the commodity to some extent and, other things being equal, this rise in price will be greater, the less elastic the demand and the more elastic the supply.

If, however, the tax is one, whose total amount is independent of the size of the monopolist's output, it will not raise the price and its incidence will be wholly on the monopolist. Examples of such a tax are a fixed contribution, independent of output, or a sum proportionate to the monopoly profits, assuming that these are discoverable by means of government costing or otherwise.

There is also a third possibility, that of a tax whose total amount diminishes as the monopolist's output increases. Such a tax, if its imposition were practicable, would in some cases¹ cause the monopolist to increase his output and lower his price. An example would be a tax, whose total amount was proportionate to the price of the commodity per unit, or a lump sum with a rebate proportionate to output. In favourable cases the incidence of such a tax would be entirely on the monopolist who, in addition, would be

¹ In those cases, namely, in which, as his output increases, his tax payments diminish faster than his monopoly profits, apart from the tax. The object aimed at may also be attained by a tax graduated according to the monopolist's rate of profits.

PUBLIC INCOME

compelled to transfer part of his monopoly profits to the buyers of his product in the form of lower prices. The chief practical obstacle in the way of carrying out this policy arises from the difficulty of checking the quality of the monopolist's product. For it will obviously pay him, if subjected to such a tax, to sell an inferior product at a lower price.

Where the product of the monopolist is an import from abroad, it will sometimes be possible to make him bear the incidence of an import licence, such a licence being a fixed payment for any given period, with or without a rebate proportionate to his importation during this period.

CHAPTER VIII

THE INCIDENCE OF TAXATION (Continued)

§1. The argument of the last chapter needs to be supplemented by various considerations, some of which blunt the sharp edge of the general theory of incidence as applied to practical problems of taxation.

 ξ_2 . The argument that the incidence of a tax on the value of land, as distinct from improvements, falls entirely on the landowner, assumes that the latter is already securing the highest rent that he can from his land. Where he is not doing so, one of the effects of the imposition of a new tax, or the increase of an existing tax, may be to make him "look sharply " to his rents and take in the slack." In this case part of the incidence will be upon the occupier. The practical deduction is that, in order to be sure of taxing landowners, it is better to impose a heavy tax than a light one. For a light tax may be less than the amount of "slack" in existing rents, whereas a sufficiently heavy tax will be greater. The practical valuation of land, as distinct from improvements, is often difficult, though many experts consider it to be quite feasible, and taxes in many parts of the world are based upon such valuations. It is not really necessary to separate the value of land from that of all improvements, but only from that of temporary, as distinct from permanent, improvements. But the line of division

between temporary and permanent is somewhat arbitrary.

§ 3. The incidence of a tax on buildings presents many complications. Not only the owner and the occupier, but also the builder, may bear part of the incidence. Further, the occupier of a building, if engaged in trade, may be able to shift part of the incidence, which would otherwise tall on him, on to the purchasers of his products.¹ The power of shopkeepers to shift their local rates on to their customers is greater when the purchases of the latter are restricted to shops in their own neighbourhood than when they are not. For in the former case the demand of customers for goods sold at shops in their own neighbourhood is less elastic than in the latter. Thus the development of postal communications, the increasing circulation of price lists and the increasing use of motor transport, both for the delivery of goods at a distance and for carrying purchasers further afield, make it less easy for shopkeepers in any particular district to shift their rates on to their customers. But the poorer customers are at a disadvantage in this matter as compared with the richer, in so far as they are less able to make distant purchases.

As between owners and occupiers, it is often argued that the incidence of rates is on the owner. For, it is said, if an occupier has to pay more rates, he will only offer correspondingly less rent. A similar

¹ Where these products are not consumable commodities, but machinery, etc., to be used in the production of further commodities, the purchasers of the machinery may, in turn, be able to shift part of any incidence falling on them on to the purchasers of their own products.

argument could be used to prove that the incidence of any tax on a commodity is wholly on the seller. For example, it might be said that, if a buyer of sugar has to pay a tax on it, he will reduce the price that he will offer, apart from the tax, by a corresponding amount. The argument assumes that the demand for the taxed commodity is perfectly elastic. But this is not true, either of sugar or of houses. The demand for houses is, on the contrary, rather inelastic, since houseroom is a necessity, in which people are less willing to economise than in many other objects of their expenditure. The only other condition, under which the incidence of rates would be wholly on the owner, would be if the supply of houses were perfectly inelastic. But this, again, is obviously not the case, though the supply is less elastic than that of less durable commodities. It is, therefore, reasonable to conclude that occupiers bear a considerable part of the incidence of rates.

§ 4. As regards the effects of a tax on a commodity upon its price certain further points are worth noticing.

It has already been mentioned that, where a tax is collected from the seller in a lump sum in respect of a large quantity of the commodity, he will be out of pocket by the amount of interest, which he would otherwise have obtained, on the sum paid to the tax collector during the period between the payment of the tax and the sale of the goods. He will, therefore, attempt to shift on to the buyers of the commodity. not only the sum paid in taxation, but also the sum lost in interest. How far he will be able to do this,

64

i.e., how far he will be able to raise the price of the commodity, depends, as before, upon the elasticity of the demand for, and of the supply of, the commodity. But, if the former elasticity is small and the latter large, it is possible that the price of the commodity may rise by more than the amount of the tax.

Another case in which a tax on a commodity may raise its price by more than the amount of the tax is that of a commodity produced under conditions of "increasing returns," that is to say under such conditions that the cost of production per unit diminishes, as the amount produced increases. In this case not only does an increased price mean a decreased demand, but a decreased supply means increased cost of production and hence an increased price, apart from the increase directly due to the tax.

Again, the sellers of a commodity, on which a new tax is imposed or an existing tax increased, even though they do not normally act in combination, may agree to raise prices by more than the amount of the tax, for the sake of producing a political effect and creating an agitation among consumers for the repeal or reduction of the tax. But, unless the agitation succeeds quickly, the sellers are likely to lose by such a policy.

Finally, the effect of imposing import duties on commodities, other than gold, may lead to increased imports of gold and reduced imports of the taxed commodities. In so far as this happens, the increased supply of gold will tend to raise the prices of all commodities within the taxing country and the prices of

the taxed commodities may, therefore, be increased, "for this reason also, by more than the amount of the duties imposed upon them. Similarly, export duties on commodities, other than gold, may lead to increased exports of gold and thus tend to lower all prices within the taxing country, but, unless the latter country contains gold mines, this process cannot be carried far. An import duty on gold would likewise tend to lower all prices within the taxing country. But it. would also have the effect, under a gold standard, of increasing the range of probable fluctuations in the country's rates of foreign exchange. The above argument pre-supposes a fairly free flow of gold across political frontiers and has no application, when gold movements are severely restricted by governments.

It is doubtful whether the four cases discussed in this section properly belong to the theory of incidence, as distinguished from the more general theory of the effects, of taxation. For when the price of a comnodity rises, owing to any of a causes just mentioned, more than it would have rise part from these causes, the extra rise in price should, perhaps, be described as an indirect. rather than'a direct, money burden on the buyer. The test would appear to be, whether such an extra rise in the price of the taxed commodity leads to an increased revenue, per unit of commodity, to the public authority imposing the tax.¹ That is to say, he test is whether the tax is ad valorem or specific. In the former case the extra rise in price is partly a

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¹This is not, of course, the same thing as an increased tax revenue in respect of the commodity. For the total tax revenue may be diminished by a falling off of demand owing to the extra rise in price, though the tax revenue per unit of commodity may increase.

question of incidence and partly of other effects; in the latter case it is entirely a question of other effects. The need for introducing such a distinction here illustrates the difficulty of effectively separating incidence from other effects.

§ 5. The argument of the preceding chapter regarding the incidence of taxes on a monopolist must be applied with discretion to practical problems. In reality perfect competition is rare, and perfect monopoly is still rarer. Some element of monopoly enters into the determination of nearly all prices, and fear of competition, actual or potential, actuates nearly all apparent monopolists. Price may be influenced by the exercise of monopoly power, as soon as a single seller, or group of sellers acting in combination, controls a considerable proportion of the commodity to be sold. But where monopoly power exists, though we may assume that it is seldom neglected, yet it is not always fully exercised. Recent investigations under the British Profiteering Act into the prices of forth sewing thread and other commodities illustrate

It follows that a tax on a monopolist, such that its incidence, according to the argument of the preceding chapter, would be entirely on him, may sometimes be shifted on to his customers by means of a more rigorous exercise than before of monopoly power. A monopolist, in fact, like a landowner, may react to taxation by "taking in the slack." Further, a group of sellers (or buyers), who have previously competed against one another, may react to taxation by acting in combination and thus enabling themselves to exercise monopoly power.

THE INCIDENCE OF TAXATION (Continued) 67

§6. Before leaving the subject of incidence, we may notice a few mistaken ideas, which are sometimes met with.

It is sometimes argued that the incidence of all taxes on commodities is entirely on consumers, because the effect of imposing a tax on any particular commodity is to reduce the profits obtainable from its production and sale below the "normal level" of profits elsewhere, and that its production will, therefore, be restricted, and its price consequently raised, until its producers and sellers are again making "normal profits." When this has come about, it is argued, its producers and sellers will be in the same position as producers and sellers elsewhere and, therefore, they will have shifted the whole incidence on to the consumers.

A preliminary objection to this argument is that the conception of "normal profits" corresponds very imperfectly with the facts of reality. There is, of course, i a constant tendency for both workers and capital to move from points where remuneration is low to points where it is high. There are, however, many obstacles to movement, some of which prove insuperable for considerable lengths of time.

But a more fundamental objection is that the argument takes no account of differences in the elasticity * of demand for different commodities.³ Suppose an equal tax per unit to be imposed upon two commodities, for one of which the demand is considerably more elastic than for the other. Then, even when the producers of both are again making "normal profits," ¹ Ner, for that matter, of differences in their elasticity of supply.

PUBLIC INCOME

the price of the first will have risen, other things being equal, considerably less than the price of the second. Therefore, the consumers of the first will be bearing a smaller part of the incidence of the tax than the consumers of the second. And even the latter will not be bearing the whole incidence, unless, as a direct result of the tax, the price has risen by the full amount of the tax, *i.e.*, unless either their demand is absolutely inelastic, or the supply of the commodity is absolutely elastic.

Again, it is sometimes said that "an old tax is no tax," by which it is intended to imply that a tax, which has been in existence a long time, imposes no present burden on anyone.¹ Thus Mill said of the "old land tax" that "there is not the smallest pretence for looking on this tax as a payment exacted from the existing race of landlords." But this is quite fallacious. The incidence of any tax, however old, is its direct money burden, and falls on those who would derive a direct money benefit, if it were now repealed. If the "old land tax" were now repealed, those members of "the existing race of landlords," who now pay it, would secure a direct money benefit in the form of an increase in income and in the selling value of their land. Its incidence, therefore, is upon them.

Another form of the same fallacy is the so-called "doctrine of capitalisation" of taxes. It is argued that taxes on land and other more or less permanent sources of income, such as government securities, depress the selling value of the object taxed when they

¹ It is true, but comparatively, unimportant, that for a while people feel the incidence of a new tax more keenly than that of a equally heavy old tax, to which they have become accustomed.

THE INCIDENCE OF TAXATION (Continued)

are first imposed, but that no burden is transmitted to subsequent purchasers of this object, since they buy knowing that the tax is payable, and reduce accordingly the price which they are willing to pay. But, again, it is undeniable that, if the tax were to be repealed, the holders for the time being of the taxed object would gain through an increase of its selling value as well as of their income. And, therefore, the incidence of the tax is on them.

Some writers have enveloped the theory of incidence in a fog of vague words, among which the terms " diffusion" and "absorption" are prominent. The conclusion of their argument is akin to that of those philosophers, who maintain that nothing definite can be known, except that nothing can be definitely known, but that all is probably for the best. All taxes are "diffused" and "absorbed," until no one's burden can be determined, but probably no one's burden is heavier than that of anyone else. This is thought to be true of all systems of taxation. any of which, therefore, is as good or as bad as any other. This line of argument is very futile, and merely runs away from all the difficulties. It is true that many of the effects of taxes are widely diffused, but it is possible to arrive at certain quite definite conclusions regarding both their incidence and their wider effects.

Finally, it is sometimes argued that the incidence of a tax on a commodity can be determined by a comparison of the price of the commodity at two different dates, before and after the imposition of the tax, in the same country, or at the same date in two different countries, in one of which there is a tax and in the other no tax, or a tax at a different rate. This type of argument is freely used both by Protectionists and Free Traders. Thus some economic historians have tried to prove that the repeal of the Corn Laws in this country had no effect upon the price of bread, except perhaps slightly to raise it. The attempted proof consists of the statement, which is true, that the price of bread rose slightly in the years immediately following the repeal. But all prices were rising at this time, chiefly owing to increasing gold production in California and Australia, and the price of bread rose less than other prices in this country and less than the price of bread in other countries during the same period.

But, in order to determine the incidence of a tax from price statistics, what should be compared with the price of the commodity at one time or place with the tax on, is not the price at a different time or place with the tax off, but the price at the same time or place with the tax off. And obviously there will be no statistical record of the latter price. For it is not any price which ever actually existed, but a price which would have existed, if certain conditions had been different. Nearly all statistical arguments on incidence are worthless, because a tax is only one of a large number of factors, which determine the price of a taxed commodity, and the effect on its price of changes in the tax may be, and often are, small compared with the effect of changes in the other factors. "You can prove anything by figures " to your own satisfaction, provided that neither you, nor those to whom you speak, know how to use them.

CHAPTER IX

THE DISTRIBUTION OF THE BURDEN OF TAXATION FROM THE POINT OF VIEW OF EQUITY

§ I. Much has been written on "the distribution of the burden of taxation," but the range of questions usually covered by this title is narrow. Assuming that the incidence of all taxes is known, and that the necessary statistics of income, consumption, etc., are available, it is possible to determine how the direct . money burden of any tax system is, in fact, distributed among different individuals and classes. It is also possible to discuss, in general terms, how this direct money burden ought to be distributed. In such discussions it is usual to take account of the direct real burdens, which correspond to tax payments. But the indirect money burdens, and still more the indirect real burdens, of taxation are not brought under review. These factors require for their consideration a comprehensive study of the economic effects of taxation and any conclusions reached in the narrower field of discussion must, therefore, be regarded as only partial + and provisional.

§2. Assuming that a given revenue is to be raised by taxation, the total direct real burden will be greater under some tax systems than others.¹ It is an obvious

¹ Also, of course, in so far as foreigners can be made to bear any of the direct money burden of any of the taxes, the total direct real burden on members of the taxing community is reduced.

PUBLIC INCOME

idea that the tax system should be so arranged, as to make the total direct real burden as small as possible. This has been called "the principle of minimum sacrifice," and it has been suggested that it would be realised by taxing only the largest incomes, cutting down all those greater than a certain amount to that amount, while exempting all those less than that amount. Thus all incomes above, say, £3,000 a year would be reduced by taxation to that figure, and no one, whose income was less than this, would be taxed at all. We are led to this rough and ready plan by the conception of the diminishing marginal utility of income. The chief objection to it is that, especially if it were introduced suddenly, it would probably check nearly all work and saving, beyond what was required to secure the maximum income not subject to taxation." This is an objection based on grounds of economy, that is to say on the consideration of economic effects. But some people would also object to it on grounds of equity or "fairness," and it will be found that, in most discussions of "the proper distribution of the burden of taxation," arguments based on equity are more prominent than those based on economy.

Different people, however, have very different ideas as to what is equitable, and many of these ideas prove to be vague and unhelpful, when it is attempted to apply them to practical problems. "It is equitable, that people in the same economic position should be

¹An example of such a result is the recent effect on Russian agricultural production of the Russian Government's policy in requisitioning from the peasants all their foodstuffs in excess of the immediate requirements of themselves and their families,

DISTRIBUTION OF TAXATION

treated in the same vay for purposes of taxation." Perhaps; but what differences in treatment are equitable for people in different economic positions? And, moreover, what is meant by the "same economic position?" Clearly a bachelor with an income of $f_{1,000}$ a year is n_{12} in the same economic position as a matried L_{121} with three children and the same income. But by how much must the income of the latter be increased, in order to put him in the same position as the former? Mere considerations of equity provide L_{10} answer to such questions as this.

§ 3. It is, in any case, an error up object, as is sometimes done, to particular taxes, as distinct from the tax system as a whole, as inequitable. For the inequity of one tax, as between different ta-xpayers. may be cancelled by that of another. There many be inequity in the parts, but equity on the whole. Bant it is not necessarily an error to approve particular taxes, as distinct from the rest of the tax system, as being in themselves equitable. Thus a plausible case may be made out, on grounds of equity, for taxes on "windfall wealth." This form of wealth, of which war profits and "unearned increment" in the value of land are examples, has two characteristics. The first is "undeservedness." in the sense that such wealth accrues to its possessor without his rendering any, or at any rate any equivalent, services in return, and the second is unexpectedness. The first characteristic is thought by many to justify the taxation of windfall wealth from the point of view of equity, while the second, as will be argued later, justifies its taxation

on economic grounds.* But it is not obviously equitable to tax some forms of win dfall wealth, unless all forms are taxed, nor is it obvious at what rates it is equitable to tax such wealth.

\$4... Returning to the tax system as a whole, three alternative principles for the equitable distribution of its direct money burden have been suggested: first, the cost to the public aut iority of the services rendered to individual taxpayers , second, the benefit to individual taxpayers of such services; and third, individual "ability to pay" traxation.

The "cost of service principle" can be applied to the supply of postal services, electric light, etc., by public autho-ities, and the prices of such services can be fixed in accordance with this principle. But it cannot the applied to services rendered out of the proceeds of taxes, as distinguished from prices. For a taxa, by definition, is a payment, in return for which no direct and specific guid pro quo is rendered to the payer. The services, if any, rendered to individual members of the community by expenditure on the King's Civil List, on armaments, police or public parks cannot, in fact, be determined and, therefore, the cost of rendering these services to different individuals cannot be determined. Thus the "cost of service principle," however equitable it may seem in the abstract, is not capable of wide practical application.

⁴ See Chapter X, § 5. But, except in a few glaring cases, the attempt to apply the test of deservedness or undeservedness to conomic payments leads to great perplexities and illustrates atresh the difficulties and vagueness of the conception of equity. "If we all got our deserts, who should escape whipping?" as Shakespeare asks.

The "benefit of service principle " fails in the same way. Since the services rendered to individuals by many forms of public expenditure cannot be determined, the benefits to individuals from such services cannot be determined. The principle can, indeed, be applied in a few special cases. For example, the benefit derived by an old age pensioner from his pension is definite enough, and the benefit of service principle would require him to return it to the public treasury in the form of a special tax." If this is equitable, it would be a simpler way of giving effect to equity to repeal the Old Age Pensions Act. Those, who think that this would not be equitable, cannot think that the benefit of service principle without qualifications is equitable. And, if qualifications are to be introduced, it is not clear, so far as equity is concerned, on what principle they are to be based, nor how farreaching they are to be.*

\$5. The principle that taxation should be distributed between individuals in accordance with their "ability to pay" is, on the face of it, somewhat more practicable. But how is "ability to pay" to be measured? It is usual, in discussions of this question, to consider the "sacrifice" to the taxpayer of paying his taxes, and then to deduce some scheme of distribution of the burden of taxation from some principle concerning sacrifice. The three most

²Under the cost of service principle, he would be required to repay, not only the amount of his pension, but also a small charge e to cover the cost of administration of the scheme.

⁶See Chapter XIV, §§ 5-7, for a discussion of how far, on grounds of economy, the cost of service or benefit of service principles should govern the prices of services supplied by public authorities.

75.

common of such principles are those of "equal sacrifice," "proportional sacrifice" and "minimum sacrifice." To these we may add a fourth, which is sometimes expressed by the injunction, "leave them as you find them," or, more precisely, "do not alter the distribution of income by taxation." It is not clear, on grounds of equity, which of these four is to be preferred.

According to the principle of equal sacrifice, the direct money burden of taxation should be so distributed, that the direct real burden on all taxpayers is equal; according to the principle of proportional sacrifice, so that the direct real burden on every taxpayer is proportionate to the economic welfare, which he derives from his income; according to the principle of minimum sacrifice, already referred to, so that the total direct real burden on the taxpayers as a whole is as small as possible; according to the principle of "leave them as you find them," so that the inequality of incomes should be neither increased nor diminished by taxation.

In order to apply any of these four principles, it is necessary to assume some relation between money income and the economic welfare derived from it. According to the relation assumed, there will result a tax system which may be either proportional, progressive or regressive. Under proportional taxation all taxpayers contribute the same proportion of their incomes; under progressive taxation, the larger a taxpayer's income, the larger the proportion which he contributes; under regressive taxation, the larger a taxpayer's income, the smaller the proportion which

he contributes.² These terms may be applied, not only to tax systems as a whole, but also to particular taxes. Thus a tax system that is proportional as a whole may contain some taxes that are progressive and others that are regressive, and a tax system that is progressive as a whole may contain some taxes that are regressive, and conversely. Again, a particular tax system may be proportional over a certain range of incomes, progressive over another range and regressive over yet another range, while there are, of course, an infinite number of possible degrees both of progression and regression.

Assuming that the relation between income and economic welfare is the same for all taxpayers and that the marginal utility of income diminishes fairly rapidly as income increases, the principle of equal sacrifice leads to progressive taxation, the principle of proportional sacrifice to still steeper progressive taxation. and the principle of minimum sacrifice, as already pointed out, to a relatively high level of exemption and very steeply progressive taxation of those not exempt. The principle of minimum sacrifice, indeed, gives this result, so long as it is assumed that marginal utility diminishes at all with increasing income. Both equal sacrifice and proportional sacrifice, rigidly applied, involve making all members of the community, however poor (provided that they have some economic welfare to sacrifice) contribute something. But minimum

¹Another and rather superfluous term sometimes used in these discussions is degressive taxation, which means that all incomes less than a certain amount are exempt from taxation, and that all incomes greates than this amount are taxed proportionally on the surplus. For the latter class of incomes, therefore, degression is a particular case of progression. sacrifice does not involve this. Further, the more rapidly the marginal utility of income is assumed to diminish with increasing income, the more steeply progressive must the tax system become, in order to give effect to either equal or proportional sacrifice.

Proportional taxation can only be justified, according to the principle of equal sacrifice, on the assumption that the marginal utility of income diminishes very slowly, and can only be justified, according to the principle of proportional sacrifice, on the assumption that the marginal utility of income does not diminish at all, but remains constant, as income increases. On this last assumption, the principle of minimum sacrifice would lead to no one distribution of taxation more than any other, since the total sacrifice would in all cases be proportionate to the total revenue raised by taxation.

Regressive taxation can only be justified, according to the principle of equal sacrifice, on the assumption that the marginal utility of income diminishes even more slowly than was required in order to justify proportional taxation according to the same principle, or on the assumption that marginal utility does not diminish at all, but remains constant or actually increases. Again, regressive taxation can only be justified according to the principle of proportional sacrifice, on the assumption that marginal utility actually increases and, on this absurd assumption, the principle of minimum sacrifice would lead to exempting from taxation all incomes greater than a certain amount, and taxing all incomes less than this amount a hundred per cent.

The fourth principle referred to above, that the inequality of incomes should be neither increased nor diminished by taxation, can only be applied when it has been decided how the inequality of incomes should be measured. It is commonly supposed by its adherents to lead to proportional taxation. But there are strong grounds for holding that, on reasonable assumptions as to the relation of income to economic welfare, this principle also leads to progressive taxation.⁴

It, therefore, appears that, on reasonable assumptions, each of our four alternative interpretations of " ability to pay " leads to some degree of progression in the tax system. This practical conclusion is now generally accepted by modern opinion, which responds readily to the suggestion that considerably the heaviest burdens should be placed upon the broadest backs. But some high authorities still cling with a curious fondness to the idea of proportional taxation. It is true that they have the support, for what it is worth in this connection, of Adam Smith, who held that " the subjects of every state ought to contribute towards the support of the government, as nearly as possible. according to their respective abilities, that is to say in proportion to the revenue, which they respectively enjoy under the protection of the State."| But Adam Smith, though a great economist in his day, wrote nearly a hundred and fifty years ago, and before the discovery of the law of diminishing marginal utility.

§ 6. It is important to notice that the four principles considered above, in common with all principles

³ See my article on The Measurement of the Inequality of Incomes, (Economic Journal, September, 1920).

PUBLIC INCOME

of equity in taxation, including the austere principle that "everyone ought to pay something," are only matters of opinion. Failing a clearer and more generally accepted definition of equity than has hitherto been forthcoming, it cannot be proved that they are, in fact, equitable, but only that certain people at certain times think them so. And it is a fact of common observation that opinion on such questions is very liable to change. It has been truly said that current ideas of equity generally amount to little more than " economy tempered by conservatism." Equity often seems to say "No," but hardly ever "Yes," an elusive mistress, whom perhaps it is only worth the while of philosophers to pursue ardently and of politicians to watch warily.

If, however, we look at the problem of the distribution of the burden of taxation from the point of view, not of equity, but of economy, we stand on surer ground, though we may ultimately be led to conclusions less simple in form than those furnished by equity. It has been argued in Chapter II of this book that any system of public finance should be conceived simply with a view to the maximum social advantage in the long run, and it follows that any tax system, as part of this larger system, should be conceived with the same object. But it is a necessary preliminary to the consideration of any tax system from this point of view to consider broadly the economic effects of taxation.

CHAPTER X

THE EFFECTS OF TAXATION ON PRODUCTION

§ I. The best system of taxation from the economic point of view is that which has the best, or the least bad, economic effects. In this and the two following chapters these effects will be considered under three heads, (I) effects on production, (2) effects on distribution, (3) other effects.

The effects of taxation on production can likewise be conveniently classified under three heads, (1) effects on people's ability to work and save, (2) effects on people's desire to work and save, (3) effects on the distribution of economic resources between different employments and localities.^x

§ 2. Any person's ability to work will be reduced by taxation which reduces his efficiency. There is, therefore, a strong presumption against imposing any taxation upon the poorer members of modern communities, for these are still so poor that a reduction in their incomes will generally mean a reduction both in the present efficiency of adults and the future efficiency of children. This argument clearly applies

¹ An alternative, and substantially equivalent, classificationwould be (1) direct effects on ability to work and save, (2) direct effects on desire to work and save. (3) indirect effects on ability and desire to work and save. For a diversion of economic resources from one employment or locality to another will produce indirect effects of this kind.

THOTIC INCOME

to taxes on small incomes, including deductions from wages, and to taxes on necessaries. It applies also to taxes on commodities, which are not strictly necessaries but the consumption of which contributes to efficiency. As regards commodities, the consumption of which does not contribute to efficiency, it may seem at first sight that the argument does not apply. But where these commodities are treated by the workers concerned as "conventional necessaries," where, that is to say, their demand for them is comparatively inelastic, an increase in their price owing to taxation will cause a reduction in their consumption, but an increase in the expenditure upon them. The workers, therefore, will have less to spend upon other necessaries, and thus the same evil effects upon efficiency may be produced, as if real necessaries had been taxed. It is possible, of course, if some of the conventional necessaries have a positively harmful effect upon efficiency, that the effects of a reduced consumption of these may balance, or even outweigh, the effects of a reduced consumption of real necessaries. The gain to efficiency through drinking less whisky may outweigh the loss through eating less bread. But this sort of possibility is too speculative to be worth much consideration. It may be added that a tax on a commodity, the consumption of which does not contribute to efficiency, and the demand for which, among the workers concerned, is comparatively elastic, will lead to an increased consumption of other commodities. But such a tax will not realise much revenue from this group of consumers.

It is doubtful how high up the scale of income the line should be drawn, below which taxation is likely

to reduce efficiency.¹ But it is clear that, even in the richest modern communities, the incomes of a large section of the population still lie below it. Moreover, the line must be drawn at different levels for different classes of workers.

Ability to save is reduced by all taxes on those, who have any margin of income, out of which saving is possible. The only taxes, therefore which do not to some extent reduce ability to save, are those which fall exclusively on people, who are so poor that they have no such margin. It is evident that heavy taxes on the rich, though defensible on other grounds, reduce ability to save in a specially marked degree.

§ 3. Turning from effects upon people's ability, to effects upon their desire, to work and save, we have to take account, not so much of the primary effects of actual taxation in the present, as of the secondary effects of the expectation that such taxation will continue in the future. For it is these secondary effects, which are here by far the most important. A tax which was expected to be short-lived, a special tax, for example, to meet some special emergency, such as war expenditure or the rapid extinction of a war debt, would not produce important secondary effects of this kind.

It is usually assumed that taxation reduces people's desire to work and save, but on closer examination the question is found to be less simple than is commonly imagined. The effects of any particular tax upon

³ It must, of course, be drawn considerably bigher than "subsistence level." For the efficiency of those, who have to live at or near this level, is obviously less than it would be, if their incomes were larger.

desire to work and save depend partly on the nature of the tax and partly on the nature of individual reactions to taxation. The latter point is most conveniently considered first.

1/§ 4. Any person's reaction to taxation is largely governed by the elasticity of his demand for income in terms of the efforts and sacrifices which he makes in order to obtain his income (or, what amounts to much the same thing, in terms of the services which he renders in exchange for his income).¹ His income. for the purpose of the present argument at any rate. is his net income after deduction of taxation. Suppose that, as a result of increased taxation, a given effort or sacrifice .--- a given amount of work or saving,--produces less income than before. What is the effect upon his desire to work or save? Obviously, to strengthen it, if the elasticity of his demand for income is small, and to weaken it, if this elasticity is large. In the former case it will seem more worth while than, before to work and to save, in the latter case less worth while. The practical question, then, is to find out how the elasticity of demand for income varies with different classes of people and with different circumstances. At this point, perhaps, the economist looks hopefully into the eyes of the psychologist, but the latter is apt to return a stony and uncomprehending stare and to talk of other things, such as the inadequate psychological basis of modern economic theory. Thus the economist is thrown back, until more effective help

¹ Alternatively, we may speak of the elasticity of his supply of efforts and sacrifices (or services) in terms of the income which he can obtain in return.

EFFECTS OF TAXATION ON PRODUCTION 85

shall be forthcoming from the psychologist, upon his own slender resources.

It is usually assumed that most people's elasticity of demand for income is large. But is it ? Many likely cases to the contrary suggest themselves. People who have dependants to maintain, or who are saving , in the hope of securing not less than a certain fixed income at a future date, will often feel compelled by, the pressure of increased taxation to work harder or to save more. Such situations are common enough among those who desire income in order to satisfy ordinary human needs, or, in other words, who desire merely to be reasonably well-off. There are many, however, who desire not merely to be well-off, but to be visibly better-off than those whom they regard as their social rivals. Hence springs much of that ostenta tious extravagance, which is typified by the story told of Carnegie, who kept four chauffeurs, because Astor, who lived just across the road, kept only three. The desire to work and save, in order to indulge a sense of vainglorious vulgarity, is not likely to be much, if at all, abated by increased taxation. Again, some men. especially some of the leaders in the world of "big business," desire wealth and an ever-increasing income chiefly as a means of power and as evidence of worldly success. The placing of obstacles, such as increased taxation, in the way of their desire to go on accumulating seems only to exhilarate such men. Thus Lord Leverhulme declares that "every raising of the rate at which income tax is levied has been followed by increased efforts, successfully made, to increase incomes out of which to pay the increased tax . . We

PUBLIC INCOME

are all inclined to say, with the Irishman, 'be jabers to the tax, if you will give me the income,' and having got the income we are all inclined to make increased efforts to make the income sufficiently large to stand the contribution demanded by the Chancellor of the Exchequer, in the form of income tax, without diminishing the balance remaining for the income earner."x According to this view of human nature, demand for income has hardly any elasticity at all. It is, indeed, uncertain how far Lord Leverhulme's bracing attitude towards taxation is shared by other business men. to say nothing of other classes in the community. The "psychology of the business world" remains something of a mystery, though it occupies a central position in some economists' theories of the causes of trade cycles. In times of trade depression it is common form in the business world to ascribe most of the economic evils of the day to the "crushing burden of taxation," though an equal, or even a heavier, burden may have been carried without apparent difficulty through the preceding trade boom. We cannot readily accept, in the face of Lord Leverhulme's evidence, the implication that business men's demand for income is so highly elastic as this, though it may well be more elastic in times of depression than in times of boom and more elastic among the inefficient than among the efficient. Nor, to return to the broader question, can we readily accept the common view that most people's demand for income is so elastic that taxation is bound, on the whole, to reduce their desire to work and save and, therefore, in this respect to check

* The Six Hour Day and Other Essays, p. 248.

EFFECTS OF TAXATION ON PRODUCTION 87

production. More light on this interesting and important problem is required.

§ 5. So far we have been speaking of taxation in general in relation to the desire to work and save. It is now necessary to distinguish between the effects of different kinds of taxes.

Whatever the taxpayers' elasticity of demand for income, there are some taxes which have hardly any tendency to influence the desire to work and save. Taxes on windfalls, which have already been referred to in Chapter IX, § 3, are an example. From the economic, as distinct from the equitable, point of view the essential characteristic of windfall wealth is its unexpectedness. Evidently there can be no expectation of a tax on an accretion of wealth, which is itself unexpected and, as has already been pointed out, it is chiefly through the expectation of its future continuance that taxation is liable to affect the desire to work and save In periods of great economic disturbance, or even i of rapid economic change, there may be considerable scope for taxes on windfalls. During the war, for instance, the British excess profits duty, which produced a large revenue, was substantially a tax on windfalls, at any rate for the first year or two of its imposition, though it gradually changed its character as the war was prolonged. Again, during a period of rapid expansion in a new country, windfall taxes on the value of land and other forms of appreciating property might yield large sums. But in more normal and less unsettled conditions it is not generally possible to raise much revenue by means of such taxes. A tax on the site value of land, or on increments of site value,

PUBLIC INCOME

is a windfall tax in some cases, but not in others, since future appreciation of value is often expected. Inherited wealth, again, is sometimes a windfall to the inheritor, but the great bulk of inheritances are the subject of pleasant expectation.

Another example is a tax on a monopolist, which gives him no inducement to alter his output or selling price. On the other hand, a tax on a monopolist, which makes a larger output and a lower selling price more profitable, will stimulate his desire to work and save, whatever his elasticity of demand for income.¹

§ 6. But in the majority of cases the effect of various taxes upon the desire to work and save depends upon the elasticity of taxpayers' demand for income. Let us first make the ordinary assumption, and that which is most unfavourable to production, that this elasticity is generally large, and let us consider, on this basis, the comparative effect of various taxes, or rather of the expectation of various taxes, upon taxpayers' desire to work and save.

Taxes on particular commodities will reduce this desire very slightly, in so far as the income derived by the taxpayer from a given effort will have less purchasing power. A general tax on income, including saved income, will reduce the desire to save more than taxes on commodities, which fall on expenditure only and not on savings Hence has arisen much discussion of the possibility, in the interests of production, of exempting savings, wholly or in part, from income tax. With the same object in view, it has been proposed to substitute a sales tax, which is equivalent to a tax

¹ See Ch. VII, § 5.

on certain sorts of expenditure, for existing income taxes. It is chiefly administrative difficulties which have hitherto prevented any sweeping exemption of savings from income tax, and these may in time be overcome.¹ On the other hand, the chief objection to the substitution of a sales tax for an income tax, in countries which are sufficiently civilised to possess the latter, arises from considerations of distribution.³ A minor objection arises from considerations of cost of collection.³

Where an income tax differentiates in favour of earned income, or, in other words, taxes incomes from work at a lower rate than equal incomes from property, it is reasonable to expect a greater check to the desire to save and a smaller check to the desire to work than if the tax, while yielding the same revenue, made no such differentiation. But, on the average, the desire to save is probably stronger and more persistent among the recipients of incomes from work than among the recipients of equal incomes from property. For the former have the keener incentive to make provision

² Income from government securities is exempt from income tax in France and elsewhere. Again, savings devoted to paying life insurance premiums, provided they do not exceed one-sixth of the taxpayer's income, are exempt from British income. tax. There is a case for raising this proportion of one-sixth to a larger fraction. Further exemption of savings could be secured, without administrative difficulty, by exempting the undistributed profits of companies, which are at present liable to tax at the standard rate. But the action of certain rich men who, in order to escape super-tax, have formed themselves into one-man companies, which distribute hardly any of their profits, has raised prejudice against such an exemption. The present tendency is in the opposite direction, *i.e.*, ingreased taxation of undistributed profits. See British Finance Act, 1924, § 21.

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See Ch. XI, §§ 3 and 5.

1 See Ch. XII, § 1.

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for the future. This is only another way of saying that demand for income is probably less elastic among the former than among the latter. Probably, therefore, a moderate degree of differentiation in an income tax does not introduce any additional check to the desire to work and save. Where an income tax is graduated or, in other words, taxes larger incomes at a higher rate than smaller ones, it is important to realise that a very high rate of tax will almost certainly result in a sharp check to the desire to work and save, and that the sharpness of this check will increase more rapidly than the rate of tax.¹ If, therefore, the tax is at all steeply graduated, this fact is likely to result in an additional check to the desire to work and save, at any rate among those who, under modern conditions, do most of the saving.

§ 7. A bax, which has much to commend it on other grounds, is a tax on inherited wealth. From the point of view also of its effects on production, such a tax has certain advantages over an income tax. It is sometimes imagined that, in proportion to the revenue obtained, an inheritance tax." falls on capital," in the sense of checking the accumulation of capital, to a much greater extent than an income tax. The prevalence of this idea is, no doubt, partly

¹ For as, in accordance with the graduation, the rate of tax on the income as a whole increases, the rate of tax on additional income increases more rapidly. If, for example, the tax is six shillings in the pound on $4_{3,000}$ a year and seven shillings in the pound on $4_{3,500}$ a year, the tax on the additional 4_{500} a year is 4_{335} and thus the rate of tax on this additional income is over fourteen shillings in the pound. In other words, the marginal rate of tax increases faster than the average rate, and it is the marginal rate which influences the desire of a clear-headed taxpayer to maintain his existing scale of work and saving. EFFECTS OF TAXATION ON PRODUCTION OF

due to the common confusion, noticed in Chapter V § $_{3}$. between a tax assessed on capital and a tax paid out of capital. But the idea itself is mistaken.

Assuming that the payment of an inheritance tax is not insured against beforehand, an income tax and an inheritance tax of the ordinary type, yielding they same revenue, probably check saving to much the same extent. For, on the one hand, as regards the actual payment of taxation, an inheritance tax will probably be paid by realisation of securities to a greater extent than an income tax will be paid out of money. which would otherwise have been saved. But, on the other hand, as regards the effects of the expectation of having to pay in the future, saving is probably more reduced by the prospect of having to pay income tax each year, than by the remoter prospect of one's heirs having to pay inheritance tax at some uncertain future date. But, where the payment of an inheritance tax is fully insured against beforehand,-and this habit is now fairly common-the actual payment is made, not by the realisation of securities, nor even out of current income, but with a sum of money received from an insurance company. In this case, the effects on saving of the actual payment, as distinct from the expectation of future payment, do not essentially differ from those of an income tax. In both cases, saving is only checked, in so far as the annual payments. whether for insurance premiums or income tax, are made with money which would otherwise have been saved. If, therefore, an inheritance tax is generally insured [against, it seems clear that it checks saving to a smaller extent than an income tax yielding the same revenue.

PUBLIC INCOME

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The preceding argument applies to an inheritance tax of the ordinary type, whether assessed, with or without graduation, on the total property passing at death or on individual inheritances, and assumes that such a tax checks to some extent the desire, on the part of persons accumulating wealth, to work and save. But, if the tax were of the type proposed by the Italian economist Professor Rignano, the desire to work and save would be checked to a much smaller extent, if indeed it were checked at all. This proposal is that the tax on an inherited fortune should be graduated according to what one may call the age of the fortune, or, in other words, according to the number of times it has already changed hands by inheritance. The greater the age of the fortune, the heavier would be the rate of tax. In its simplest form this proposal i would amount to a differentiation between what we may call a person's earned wealth and his unearned wealth, or, in other words, between wealth which he, had acquired as a result of his own work and saving and wealth which had come to him by inheritance or gift from others. On his death the latter class of wealthwould be taxed at a higher rate than the former, thus giving him a stronger inducement to work and save in order to provide for his heirs, and making it less easy for him to rest on his oars and allow the dead hand to propel his boat."

¹See my Inequality of Incomes, Part IV, Chs. IX-X, for a fuller, discussion of Professor Rignano's scheme and of inheritance taxes in general. See also Pigou, *Economics of Welfare*, Part IV, Chs. II and VII, for a discussion of the comparative effects of income and inheritance taxes upon production.

EFFECTS OF TAXATION ON PRODUCTION 33

There is a further consideration which tells in favour of inheritance taxes, as against income taxes, from the point of view of their respective effects upon production. This is their effect upon the expectations of prospective | inheritors. The latter will evidently be less inclined to work and save, the more substantial the inheritance to which they look forward. They may even be tempted, by a bright and near prospect of unearned wealth, to indulge in negative saving, running into debt or borrowing on their expectations. An inheritance tax, therefore, by reducing these expectations, stimulates work and saving by prospective inheritors and, the heavier the tax, the greater the stimulus. More and larger life insurance policies, for instance, would be taken out, if the inheritance of wealth was more severely limited by taxation and more sons and daughters of well-to-do parents would be trained to earn their own living.

§8. The argument of the two preceding sections has been based on the assumption that taxpayers' demand for income is, on the whole, relatively elastic, and hence that various taxes check, in different degrees, the desire to work and save. But we have seen in §4 of this chapter, that this assumption is of doubtful validity. If we assume, on the other hand, that taxpayers' demand for income is, on the whole, relatively inelastic, it will follow that taxes on particular commodities, on income and on inheritances will stimulate the desire to work and save. Without pursuing in further detail the conflicting results of these two assumptions, we may, I think, safely conclude that, whatever may be the case with other taxes, an inheritance tax on the Rignano plan would stimulate, and not check, the productive energies of those affected by it. The practicability of such a tax should, therefore, be carefully considered by modern finance ministers.

§ 9. So far in this chapter we have been considering how taxation may affect production through its influence upon people's ability and desire to work and save. We have now to consider how it may affect production through its effects on the distribution of economic resources between different employments and localities.

The undesirability, in the interests of production, of diverting "trade," or, more generally, economic resources, from their "natural channels" has been a favourite theme with many economists of past generations, who have argued that the resources diverted will be less productive in their new employment (or locality) than they would have been in the old. Most modern authorities agree that, as a general rule, such diversions tend to check production, but that there are a large number of practical instances to which this rule does not apply. The much too absolute doctrine of the inviolability of "natural channels," as preached by the ancients and still echoed by some sections of uninstructed modern opinion, expresses a plausible half-truth, which is often an obstacle both to clear thinking and to wise policy. We may say that, in the choice of taxes, there is a presumption in favour of those which cause the minimum of diversion of economic resources. But this presumption is frequently overthrown by special arguments applicable to

particular cases. It will, therefore, be convenient to begin by considering what sorts of taxes cause, in fact, the minimum of diversion, and go on to consider certain particular cases of substantial diversion.

§ 10. As between different employments of economic resources, taxes which have been defended on the ground that they cause little or no diversion, include taxes on windfalls, taxes on the site value of land, such taxes on monopolists as offer no inducement to alter output or selling price, and certain taxes which fall with equal weight on all uses of wealth. In general, the way in which diversion is apt to occur is as follows. A person who owns, or himself embodies, economic resources which, in their actual employment, are subject to tax, seeks to escape this tax by diverting these resources to some other employment, in which they will either be untaxed or taxed less heavily. Such a diversion will be profitable to him provided that the loss of income, apart from taxation, due to the change of employment is less than the gain though the payment of lower taxation. Such diversion of existing resources is often difficult, or even impossible, since capital and labour tend to become fixed or specialised in particular employments. But no such difficulty prevents the diversion to other employments of new. resources, not yet specialised, which, but for the tax, would have entered the taxed employment and, in practice, it is the diversion of new resources, rather than of existing resources, which is much the most important. The British rating system, for instance, imposes

specially heavy taxation upon houses, in the form of onerous rates." The effect is a large diversion of capital and labour, which would otherwise have been employed in the building of houses, to other employments. The supply of houses is consequently smaller than it would otherwise have been, and there is a presumption that the capital and labour, which are diverted to other employments, are less productive there than they would have been had they been employed in house building. The extent to which a given tax causes a diversion of resources from the taxed employment and a reduction in the supply of the product of this employment depends, as was shown in Chapter VII, upon the elasticity of demand for this product and upon its elasticity of supply.

A tax on windfalls, falling unexpectedly, like a bolt from the blue, upon accretions of wealth which are themselves unexpected, obviously gives no inducement to diversion. A tax on the site value of land, irrespective of the employment to which the land is put, causes no diversion, since its incidence is wholly upon the landowner² and since the supply of land is fixed by nature and, therefore, no restriction of supply is possible. A tax on a monopolist, which gives him no inducement to alter his output or selling price, gives no inducement to diversion, because, though the monopoly becomes less profitable than it would otherwise have been, it remains more

² See Ch. VI, § 3.

⁶ Compare, however, Ch. VIII, § 2.

profitable than the employment of resources in open competition.¹

A tax, which falls with equal weight upon all uses of wealth, or, in other words, upon all employments of resources, gives no inducement to diversion, because no diversion would be a source of profit. Some controversy has recently taken place as to what would constitute a perfect "non-differential" tax of this kind. On the one hand, it has been maintained that a general tax on income is non-differential, while, on the other, it has been argued that such a tax, since it taxes both income when saved and income subsequently derived from savings, differentiates against saving and gives an inducement to diversion from saving to spending. If the latter argument be sound, a perfect non-differential tax would be a tax on expenditure only, or. in other words, an income tax with an exemption for income which was saved. But whether, in fact, a general income tax causes a diversion from saving to spending depends upon the elasticity of the taxpayers' demand for the future income to be derived from savings. If this elasticity is large, such a diversion will take place; if it is small, the diversion will be in the opposite direction, from spending to saving; if it is of some intermediate size, there will be no diversion. Similarly, an expenditure tax may cause a diversion in

¹Though not necessarily more profitable than the employment of resources in other monopolies, if these are not correspondingly taxed. But the policy of monopolists, based upon restriction of output, deliberately obstructs the entry of new resources into the monopolised employment or conspires to keep them, to a considerable extent, idle and unproductive. See, for example, the Report on the Light Castings Industry by an official Committee under the British Profiteering Act.

either direction, or no diversion at all, according to the size of this elasticity. Without reference to this factor, it cannot be maintained that either tax is perfectly "non-differential." But either tax, in so far as it falls only on marginal expenditures or savings, regardless of their particular character, is evidently less differential, and tends to less diversion of resources, than taxes on particular commodities, or what amounts to the same thing, on particular employments of resources. For taxes of the latter kind fall also upon "intra-marginal" expenditure or savings. Similarly a general property tax, if accurately assessed, is comparatively "non-differential."

§ 11. There is a presumption in favour of those taxes, which cause a minimum of diversion. The strength of this presumption in some cases and its weakness in others may be shown by a few illustrations. A tax on whisky, by diminishing the consumption of this noxious spirit and increasing health and efficiency, may cause a diversion which will increase production.¹ The same argument applies to the taxation of other commodities, the consumption of which it is desirable to discourage. Again, a tax on land used for particular purposes will tend to cause a diversion from these purposes to others, which may be more beneficial to production. Thus there is much to be said for a tax on land used only for purposes of

¹A diversion of economic resources, though not necessarily a diversion of money expenditure in the same direction. A tax on a commodity, by raising its price, will reduce the demand for it, and hence the economic resources required to meet this demand. If, however, the demand is inelastic, a larger sum of money than before may be spent on purchasing a smaller quantity. But other commodities will be produced in larger quantities and sold at lower prices.

EFFECTS OF TAXATION ON PRODUCTION 99

sport or on land, in excess of a certain prescribed acreage, used by its proprietors for private enjoyment only. Again, a tax on a monopolist, which gives him an inducement to increase his output and lower his selling price, is likely to cause a beneficial diversion, since the additional resources which he will employ are likely to be more productive than they would have been in competitive employment. These examples show that the presumption against diversion is often weak and easily overthrown.

On the other hand, examples of harmful diversion are frequently found in modern tax systems. The case of the heavy taxation of houses under the British rating system has already been mentioned. In view of the shortage of houses and of the reactions of bad housing upon health and efficiency, the diversion of capital and labour from house-building to other employments is clearly harmful.¹ Again, a special tax upon business profits, such as the British corporation profits tax, is a bad tax from the present point of view. For it discriminates against a particular class of propertyowners, namely the ordinary shareholders in joint stock companies, as compared with all other classes, including debenture shareholders and the holders of war loan and other gilt-edged securities. It is, therefore, in

¹ It is for this reason that the argument for rating site values, rather than buildings, carries great weight, so far at least as onerous rates are concerned. There are, however, certain objections, due to the complications of British urban land tenure, to making such a change at one fell swoop. Since the chief object of the change is to remove the present hindrance to new building, the way of least resistance and greatest convenience would be to stabilise existing rating assessments and only to vary them in future in accordance with variations in the site value. This would effectively free both **new buildings**. PUBLIC INCOME

effect, a tax on risk-bearing and tends to divert the flow of capital from risky to comparatively safe investments. But, in view of the need that risks should be taken and the reluctance of many investors to take them, this is a harmful diversion.

Consider, finally, the case of a protective tariff. which is the classical example of the deliberate diversion of resources from their "natural channels." The case for such a tariff, in the interests of increased production, is generally supported in popular discussion by arguments which are grossly fallacious, but in its classical form, as stated by List, it is logically respectable. It is undoubtedly possible that, in some circumstances, a skilfully devised protective tariff, though diminishing production for a while, may yet increase it in the long run, by developing certain sources of productive power faster than they would otherwise have been developed. But this is a bare theoretical possibility. The circumstances, in which such a result is likely, are rare, and can hardly arise in highly developed industrial communities. Further, even when the circumstances are present, the likelihood of a protective tariff being skilfully devised from the point of view of the community as a whole, as distinct from that of powerful organised interests, which ought not to be protected, is slight. Further, List's argument assumes that protection should be temporary, whereas one of the most difficult tasks in practical politics is to get rid of a protective tariff once established. And such a tariff, even if originally justifiable, may inflict far greater loss on productive power, if too long maintained, than would have been incurred if it had never

been adopted at all. Sidgwick probably said the last word on this matter, when he remarked that many people seem to suppose that in theory free trade is the best policy; but that in practice protection will not do much harm and may do some good, whereas the true situation is the exact opposite of this; in theory a case may often be made out for protection, but in practice it is far safer to stick as closely as possible to free trade. The prevalence of high protective tariffs in the modern world is to be accounted for by the great political power of organised interests, which, aided by certain elementary but widespread confusions of thought on the subject of international trade, benefit by protection at the expense of the unorganised general public. In view of the strength of these forces working towards harmful diversions, it is a counsel of wisdom that the protection of particular industries should be a source, not of public revenue, but of public expendi-For in this case policy will be more critically ture. watched both by finance ministers and by' taxpayers. This points to subsidies in special cases, rather than protective duties. But the discussion of subsidies must be postponed to Part III of this book.

§ 12. In the last two sections we have been considering the diversion of economic resources from one' employment to another. But diversion may also take place, as a result of taxation, from one locality to another, and the general presumption against diversions is relevant here also, as regards aggregate production in all the localities concerned. Local diversions are specially apt to take place in comparatively small communities, when persons or capital are driven by

the pressure of taxation into neighbouring communities where taxation is less heavy. Thus differences in taxation, and also in strictness of assessment, as between different States in the United States of America, seem to have caused considerable movements of this kind.

In this country the argument is often heard that taxation, and especially our income tax and death duties, "drives capital abroad." It is true, but it is a very feeble answer, that no taxation can drive abroad existing fixed capital, such as railways and factories. For the argument refers not to existing, but to future, capital goods, whose location is not yet decided.

Specially heavy British taxation might cause either foreign or British capital to be invested abroad, which would otherwise have been invested here. The former possibility is not important, since very little foreign capital is invested here in any case. As to the latter possibility, British income tax falls equally upon income from capital, whether invested in this country or abroad, provided that the owner resides in this country. British death duties likewise, with a few unimportant exceptions, fall equally upon property, whether situated in this country or abroad, of persons resident in this country. These British taxes, therefore, will only drive British capital abroad, if the owner is willing to be driven abroad along with it, or if, remaining in this country, he is prepared to perjure himself to the Inland Revenue Officials, and thinks himself less likely to be caught in respect of his foreign investments. Wealthy Englishmen, however, show no signs of emigrating in large numbers, and probably not very

many are inclined to substantial perjury, particularly since the increasing efficiency of the tax collectors is constantly diminishing the chance of escaping detection. A tax on the site value of land has, however, these two further arguments in its favour, in addition to those already mentioned, that, since land is incapable either of exportation or concealment, such a tax can neither cause local diversions nor be evaded by dishonest taxpayers.

^{*} Double taxation of the same income or property by two public authorities, which often takes place when capital is invested in one country and owned by a resident in another, influences the flow of foreign investment and causes diversions, which are probably on the whole harmful, from that international distribution of capital, which would otherwise come about. Recent agreements for the abolition, in effect, of double income tax within the British Empire are, therefore, to be welcomed and the conclusion of similar agreements with other countries is desirable.³

Variations of local taxation within a country, such as Great Britain, in so far as they correspond to variations in the cost of rendering those local services, which are paid for by beneficial, as distinct from onerous, rates, do not lead to harmful diversions but tend to prevent an uneconomic territorial distribution of population and capital. In so far, however, as these two sets of variations do not correspond, harmful diversions tend to arise.

³ Such diversions might also be somewhat reduced by the exemption from British income tax of the undistributed profits of British companies operating abroad.

§ 13. To sum up the main conclusions of this chapter, it is probably impossible to impose heavy taxation in a modern community without thereby causing some check to production. How severe this check will be, in respect of any given tax revenue, will depend both upon the character of the taxes imposed and upon the character of the taxpayers. The check may be exercised in three ways. The first is through the effects of taxation on people's ability to work and save; the second is through its effects on people's desire to work and save; the third is through diversions, due to taxation, of economic resources as between different employments and localities. It is under the first head, and especially as a result of reduced ability to save, that the check is most certain and probably most serious. Under the second, much depends on the character of the taxpayers, or, in technical terms, on the elasticity of their demand for income. A check to production under this head is not inevitable; on the contrary, a stimulus to production is a possibility Under the third head, much depends on the wise selection and administration of taxes. Here, again, a check to production is not inevitable and a stimulus is possible.

If all the proceeds of taxation were spent on waste, which contributed nothing to economic welfare, then any check to production as a result of taxation would be a clear economic loss. But, if the proceeds of taxation are wisely spent, the stimulus to production due to this expenditure may be far stronger than the check to production due to taxation. Public finance, viewed as a whole, would then be responsible for increasing production.

CHAPTER XI

THE EFFECTS OF TAXATION ON DISTRIBUTION

§ 1. It is generally admitted that it is important to study the effects of taxation on production, and that, other things being equal, it is a legitimate ground of preference for one tax system over another that it has a smaller tendency to check production. It is not generally denied that the effects of taxation on distribution are also worthy of study, but it is sometimes denied that it is an equally legitimate ground of preference for one tax system over another that it has a stronger tendency to reduce, within limits, the inequality of incomes. The German economist Wagner deserves credit as being one of the first to insist that taxation should be used to reduce this inequality. His so-called "socio-political" view of public finance displeases certain other high authorities, but it is logically sound and is increasingly adopted in modern practice. For a less unequal distribution is no less desirable than an increased production of wealth."

§ 2. It has been remarked above that the measurement of the inequality of incomes raises some difficult

¹ The ideal distribution, from an economic point of view, is that which causes a given amount of production to yield the maximum of economic welfare. This ideal is not, therefore, an absolutely equal distribution, but a <u>distribution</u> "according to needs." In face, however, of the great inequality of incomes, which prevails in most modern communities, we may be reasonably sure that any practicable reduction in inequality will give us a closer approxitmation to the ideal distribution.

problems,—incidentally this is also true of the measurement of production,—and that, until these have been solved, the comparative effects of different tax systems on inequality cannot be precisely determined. But certain broad conclusions readily emerge.

A regressive tax system undoubtedly tends to increase the inequality of incomes. So, probably, does a proportional, or even a mildly progressive. tax system,¹ But a more sharply progressive tax system tends to reduce inequality and, the sharper the progression, the stronger this tendency.* Considerations of distribution, therefore, lead us towards the most sharply progressive tax system that is practicable. A rough approximation to such a system is that referred to in Chapter IX, § 2, in our discussion of the principle of minimum sacrifice, by which all incomes above a certain amount are cut down to that amount. and no incomes less than that amount are taxed at all From the economic, as distinct from the equitable, point of view, and so far as considerations of distribution only are concerned, this, with certain minor adjustments, would be taxation according to ability to pay. Considerations of production make so sharp a progression undesirable, on a broad view of maximum social advantage. But the case for a considerable degree of progression may be taken to be firmly established.

It was, however, pointed out in another connection in the last chapter, and may be repeated here, that public

* See Ch. IX, § 5.

^a Yet another tricky problem of measurement, that of the *degree of progressiveness* of a tax system, may be indicated, but will not be pursued, here.

EFFECTS OF TAXATION ON DISTRIBUTION 107

authorities controlling comparatively small areas must face the possibility that their tax policy may drive persons and capital outside their areas. A small community, instituting a tax system markedly more progressive than those of its neighbours, might well cause such an exodus and suffer by it. The larger the areas, over which strongly progressive tax systems operate, and the smaller the mobility of persons and capital across their boundaries, the less serious is this 'danger.

§ 3. A poll tax, equal in amount for each taxpayer, is the simplest of all taxes. If all incomes were equal, it would be a proportional tax of great practical convenience. But, if incomes are unequal, it becomes a regressive tax and, the greater the inequality, the greater the degree of regression. It is, therefore, unsuitable to the conditions of modern communities.

Taxes on commodities of wide 'consumption are generally regressive, since, as a rule, the larger a person's income, the smaller the proportion of it, which he spends on any one such commodity. Thus taxes on food are generally sharply regressive. So are taxes on tobacco and the cheaper sorts of alcohol. An ad valorem tax on a commodity is less regressive than a specific tax, since the former differentiates to some extent against consumers of the more expensive qualities. A proportional tax on individual expenditure (since the ratio of expenditure to income falls as income increases), and a sales tax, which consists, in effect, of a number of taxes on particular commodities, are similarly regressive: If a tax system, which includes regressive taxes, is *o be progressive on the whole, it must contain

108

other taxes, which are themselves progressive and which exercise a stronger influence on the general character of the tax system.

§ 4. The most important taxes, which are easily made progressive, are income and inheritance taxes and general taxes on property.

An income tax may be made progressive by means of a graduated scale of rates. larger incomes being taxed at higher rates than smaller ones. This principle may be applied directly, each taxpayer making a return of his total income and being charged on it at the appropriate rate. But, for administrative reasons, it is more convenient to apply it to a large extent indirectly. Thus the British income tax law imposes a standard rate of tax, which is deducted from most taxable income before it reaches its recipient, who may, however, claim some repayment, if his total income is less than a certain amount. This is supplemented by an additional graduated tax, or super-tax, on the larger incomes only, and by a system of exemptions and allowances specially affecting the smaller incomes. 'The tax is progressive as between different sections of income tax payers and thus helps to counter-balance the effect of regressive taxes in the tax system as a whole. But it is not, of course, progressive as between the various sections of those who are exempted, and may leave the tax system regressive as regards the latter. though progressive over the higher ranges of income. Progression in the British income tax is also secured, to a small degree, by limiting differentiation in favour? of income from work, as against income from property. to incomes Below a certain amount.

EFFECTS OF TAXATION ON DISTRIBUTION 109

An argument, which may be mentioned here, in favour of differentiation is that an income from property will generally yield a larger amount of economic welfare than an equal income from work, since against the economic welfare derived from the latter must be debited the disutility, or subjective cost, of the work itself, the need of the worker to live near his place of work, and his greater need, as compared with the property owner, to make provision for the future. The income from work should, therefore, be taxed at a lower rate than the income from property, if each taxpayer is to make a proportional sacrifice of economic welfare and, *a fortiori*, if the total sacrifice of the two, corresponding to a given tax contribution, is to be a minimum.

An important question, specially arising in connection with income tax, but relevant to the wider question of the character of the whole tax system, is that of the allowances, which should be made for the domestic circumstances of the taxpayer. Under the British income tax law, the incomes of a husband and wife are treated, substantially, as a single taxable income, and allowances from this taxable income are then given in respect of the wife and of any children under sixteen years of age. A more logical arrangement would be to take the total income of a family, to divide it by the number of persons supported out of this income (a young child, perhaps, being counted as less than a "full person"), and to charge income tax upon that number of separate equal incomes. For example, if a husband's income was £800 a year and his wife's £200, and if they had four children under sixteen,

each of whom was counted as half a person for purposes of assessment, there would be a family income of f1.000 a year supporting four persons, and this would be treated, for income tax purposes, as four separate incomes of £250 a year each. It is, however, an objection to this arrangement, though not necessarily a fatal one, that the level of exemption would need to be considerably lower and the rates of tax considerably higher, for a given revenue vield, than under the existing system. The latter system, however, especially if the present allowances for wives and children are increased, is greatly superior to an alternative often proposed, under which married women's incomes would be taxed independently of their husbands'. For, if this were done, a progressive income tax would fall more heavily upon a married couple, one of whom had an income of £800 a year and the other nothing, than upon a married couple, each of whom had an income of f_{400} a year. And there is no good reason, either in equity or economy, for such a difference of treatment. Unless, however, the income tax payable by a man with a given taxable income and no dependents is made greater than that payable out of a family income of equal size, on which two or more persons have to be supported, mere graduation of the rates of tax will not bring any close approach to taxation according to ability to pay.

§ 5. It is a fundamental weakness of a sales tax that it cannot make allowances for domestic circumstances, and indeed that it tends to fall more heavily, as between taxpayers of equal income, on those who have the largest number of dependants. Nor is it

IIO

EFFECTS OF TAXATION ON DISTRIBUTION III

possible, except by a very elaborate differentiation of the rates of tax on various commodities, to make a sales tax progressive as between different taxpayers' of unequal incomes. It would probably also be necessary, for this purpose, to extend the scope of the tax to cover the sale of personal services.

A progressive tax on individual expenditure might, indeed, be obtained by the exemption of savings from a progressive income tax. But since, as a rule, the larger the income, the larger the proportion saved, a very steep rate of progression on incomes, *i.e.* on expenditure plus savings, might be required in order to produce a tax which should be progressive on expenditures.¹ It follows that the complete exemption of savings from income tax would make it very difficult to construct a progressive tax system, in which the income tax was a prominent feature.

§6. An inheritance tax may be assessed and graduated in various ways. It will, as a general rule, be progressive as between inheritors, if, on the occasion of any particular death, it is assessed on a progressive scale on the amounts inherited by different individuals. Mill's proposal to fix a maximum sum, more than which no individual should be allowed to inherit, only implies a specially sharp progression in a tax of this kind. But, if the same individual receives separate

¹ For example, if A's income is $f_{20,000}$, of which he saves $f_{10,000}$, and B's income is $f_{5,000}$, of which he saves $f_{10,000}$, then a given rate of expenditure tax on A, is arithmetically equivalent to half that rate of income tax, and a given rate of expenditure tax on B to four-fifths of that rate of income tax. It follows that, if the rate of tax on A's expenditure is to exceed, even slightly, the rate on B's, the rate on A's income must be nearly double the rate on B's.

inheritances on different occasions, complications arise. Thus a person who receives two legacies of {1,000 each will be less heavily taxed than one who receives a single legacy of £2,000. It is, therefore, desirable, from the point of view of distribution, to graduate an inheritance tax, not only according to the amounts received by inheritors, but also according to the amounts of wealth, which the latter already possess, a principle which has recently been adopted in Italy. But many inheritance taxes are assessed on other bases. The British estate duty, for instance, is assessed on a progressive scale on the total value of the property passing at death, regardless of its distribution among inheritors, and the British legacy and succession duties are progressive according to the remoteness of the relationship of the inheritor to the deceased. Neither of these principles of progression necessarily leads to progression as between inheritors. In practice, the British estate duty probably does so in the majority of cases, since testators generally leave most of their property to a few fortunate persons. But the duty would fall more heavily, both absolutely and proportionately, upon an estate of £50,000, to be equally divided among five inheritors, than upon an estate of £40,000 passing to a single inheritor. The legacy and succession duties, on the other hand, are often regressive on inheritors, since testators generally leave more to near than to distant relatives, and very little to persons who are not related to them.

The practical conclusion is that an inheritance tax, in order to contribute most surely to the progressiveness of a tax system, should be assessed on a

EFFECTS OF TAXATION ON DISTRIBUTION 113

progressive scale on individual inheritances and on the wealth of inheritors.¹ A heavy inheritance tax further tends slightly to reduce the inequality of incomes by stimulating gifts *inter vivos* from the old to the young, with the object of avoiding the tax. But this tendency is less powerful than might be supposed, since those who receive such gifts are generally those, who would otherwise have inherited a little later, and since, when the tax is successfully avoided, the recipients are richer than they would have been, if they had had to pay it.

§7. A general property tax may obviously be made progressive as between property owners by means of graduated rates, exemptions and allowances. It has been pointed out above² that the capital value of property is generally a less satisfactory basis of tax assessment than its annual value, or, in other words, than the income derived from it. But in special circumstances there is sometimes a strong case for a progressive tax on the value of property held by individuals. Such a case arises, for instance, in connection with the huge war debts of to-day, which, as argued below,³ should be greatly reduced, if not entirely paid off, by means of a tax of this kind imposed, not annually, but once for all.

§8. The principle of progression may also be introduced into other taxes. A tax on land values, for example, may be made progressive on the total value of land owned by individuals, with a minimum of

¹Such a tax could be combined with another based on Professor Rignano's principle, which was referred to in the last chapter.

^{*} See Ch. VI, § 2.

³ See Cb. XXIII.

exemption. The Australian Commonwealth land tax is of this type. Such a tax tends to produce a more equal distribution of land, though not necessarily of all wealth, in private ownership. For a big landowner, by selling half his land as measured by its value, will escape more than half his tax.

On the other hand, some taxes, which at first sight appear progressive, are somewhat disappointing in this respect on a closer examination. Take, for example, a corporation tax, progressive according to the ratio of the profits to the capital of a business. Such a tax is by no means necessarily progressive on individual incomes derived from businesses subject to it. For a dividend of 5 per cent on an investment of $f_{5,000}$ in one company would be taxed at a lower rate than a dividend of 10 per cent on an investment of £1,000 in another. Still less is it necessarily progressive on individual incomes from property, for incomes, however large, from public securities or land would escape it, while incomes, however small, even below the level of income tax exemption, would be taxed, if derived from businesses subject to it.¹ The latter argument applies also to a corporation tax at a flat rate, such as the British corporation profits tax.

§ 9. As in the last chapter, a reference may be made to the theoretical possibilities of a protective tariff. For it is sometimes claimed that such a tariff might succeed, not only in increasing production, but also in improving distribution by reducing the inequality

¹ Similarly the taxation of Co-operative Societies is objectionable. from the point of view of distribution, since the majority of their members are comparatively poor.

EFFECTS OF TAXATION ON DISTRIBUTION 115

of incomes. Theoretically, a tariff might do this in either of two ways. It might, on the one hand, tax imported commodities competing with those home industries, in which wages were comparatively high, and thus tend to divert production and employment, from other industries, in which wages were lower, to these more favoured industries. And it might, on the other hand,—and for this purpose it would not always need to be protective—tax imported commodities mainly consumed by the rich, and thus tend to substitute for such imports others, which would be more useful, directly or indirectly, to the majority of the community.

Both these results are theoretically possible, but \underline{Y} their attainment, even in the most favourable circumstances, would probably amount to very little, while considerable incidental damage might be done. If it is desired to improve distribution by taxation, more direct and powerful methods, such as have been referred to in earlier sections of this chapter, are available.

§ 10. It is interesting, by way of illustration, to notice the extent to which the British tax system has, in recent years, become progressive. This is well brought out by Sir Herbert Samuel's comparison of the distribution of the direct money burden of taxation in the three years 1903-4, 1913-14 and 1918-19.² His estimates exclude local rates, stamp duties and excess profits duty, but treat as a tax the profits of the Post Office. It is assumed, to facilitate the calculation, that death duties are insured against by annual premiums.

¹See his paper in the Journal of the Royal Statistical Society, March, 1919. which are regarded as additional income tax on incomes from property, and it is also assumed that all taxes on commodities are wholly paid by consumers.

He shows that indirect taxes were sharply regressive in each of the three years, but that direct taxes have become more and more progressive. The tax system as a whole shows the following evolution.

Percentages of Incomes Paid in Taxes Taxpayer's

Income.		omes from	work.	Incomes from property.		
£	1903-4	1913-14	1918-19	. 1903-4	1913-14	1918-19
50	9.1	8.7		9.1	8.7	
100	6.2	6.0	13.8	6.2	6.0	13.8
150	5.0	4.9	11.0	5.0	4.9	11.0
200	5.6	4.8	10.3	7.8	7.0	12.4
500	6.6	5.8	13.1	8.8	9.9	18.1
1,000	7.4	6.6	19.4	10.3	12.2	26.5
2,000	6.6	5.8	25.6	9.8	12.0	33.6
5,000	5.6	6.8	37.2	9. 6	12.4	43.5
10,000	5.1	8.I	42.6	9.5	15.1	50.3
20,000	4.9	8.3	47.6	10.0	16.0	58.I
50,000	4.8	8.4	50.6	10.2	18.1	63.9

Taken broadly, these figures show that in the first year the tax system was, on the whole, distinctly regressive on incomes from work, regressive on incomes from property up to between £150 and £200 a year, then slightly progressive up to about £1,000 a year and then roughly proportional.

In the second year it was still regressive on incomes from work up to between $\pounds 200$ and $\pounds 500$ and on incomes from property up to between $\pounds 150$ and $\pounds 200$

EFFECTS OF TAXATION ON DISTRIBUTION 117

On incomes from work between f_{500} and $f_{5,000}$ it was roughly proportional, and above $f_{10,000}$ again roughly proportional, but at a slightly higher rate. On incomes from property above f_{200} it was, on the whole, mildly progressive, with a proportional patch between $f_{1,000}$ and $f_{5,000}$.

In the third year regression is still found on incomes from work up to between £200 and £500 and on incomes from property up to between £150 and £200. Above these points the tax system has become continuously progressive on both sorts of income, and the scale of progression has been steepened to a degree, which would have seemed incredible both to the Chancellors of the Exchequer and to the economists of the Victorian Age. But it is not likely that we have yet reached the limits of practicable progression. The persistent element of regression among the smaller incomes is largely due to the maintenance of taxes on food, and is a serious blot, from the point of view of distribution, on the tax system as a whole

CHAPTER XII

SOME OTHER EFFECTS OF TAXATION

§ I. We may now complete our study of the economic effects of taxation by a few miscellaneous considerations.

Connected with effects on production are considerations of the cost of collection of taxes. For unnecessarily high cost of collection involves a waste of labour and materials, which is equivalent to a diminution of production. Other things being equal the best tax, system is that in which the cost of collection, in proportion to the revenue collected is a minimum.¹

As a rule, the cost of collecting a tax on a commodity is the same, per unit of commodity, whether the rate of tax is high or low ² Provided, therefore, that the rate of tax is not so high, as to reduce the revenue yield below the maximum, the cost of collection, in proportion to the revenue yield is clearly less for a heavy tax than for a light one. This is an argument for a small number of fairly heavy taxes on commodities rather than a large number of lighter ones.

¹One of the beauties of raising revenue by currency inflation, which is discussed in Ch. XV. is that practically no cost of collection is involved, the cost of printing even very large supplies of paper money being quite small.

² Unless the rate of tax is so high as seriously to stimulate attempts at evasion. Thus high import duties may encourage attempts at smuggling, the prevention of which will be an expensive matter. The increasing use of aircraft in the future is likely to facilitate smuggling, especially as regards commodities, whose bulk is small in proportion to their value.

Again, cost of collection is generally greater for ad valorem than for specific duties, and specially heavy for elaborate duties, which differentiate between commodities from different sources of supply. Such elaborations should, therefore, be avoided, unless they can be shown to serve some really good and important purpose.

Similarly, as a rule, the cost of collecting an income tax, or an inheritance tax, at a flat rate is the same. per taxpayer, whether the rate of tax is high or low. It is, therefore, cheaper to collect a given revenue at a high flat rate from a small number of taxpayers than at a low flat rate from a large number. In practice, an additional cost of collection is involved in the administration of exemptions, allowances and graduated rates and in the taxation of small incomes. An income tax on small incomes must either be paid in a single annual payment, which inflicts great hardship on the taxpayer and is difficult to assess owing to weekly variations in wages, or in several instalments during the year, an arrangement which greatly increases the cost and trouble of collection, while not altogether avoiding the difficulty of wage variations. Probably the cheapest way to collect an income tax on wages would be to require employers to deduct the tax in the same way as they now deduct the workers contributions under the Health and Unemployment Insurance Acts. But even under such a system the cost of collection, including checking and supervision, in proportion to the revenue collected, would be large. British experience shows that, in proportion to the revenue collected, cost of collection is smaller for

IIG

income and inheritance taxes on the relatively rich than for taxes on commodities, and smaller for the latter than for income tax on the relatively poor. Income tax on wages, based on quarterly assessments, is specially expensive to collect." This experience supports the view that it is best to tax the rich through their incomes and inheritances and the poor, in so far as they are taxed at all, through a few commodities of wide consumption, such as alcohol and tobacco. Similar conclusions may be drawn for other communities, which are highly developed industrially and fairly thickly populated. But in communities which are more primitive industrially, such as India, or more thinly populated, such as Canada, the cost of collection of income tax may be relatively higher as compared with taxes on commodities, and especially as compared with customs duties. For it is often cheaper and more convenient to tax commodities as they cross political frontiers, than as they are produced or sold within these frontiers. Thus the cost of collection of import and export duties is likely to

⁴ Thus, in 1920-1 the cost of collecting $\frac{1}{2}754,000,000$ of inland revenue, chiefly income tax and death duties on the relatively rich was $\frac{1}{2}8,00,000$, or 1.13 per cent of the yield. (*Report of Inland Revenue Commissioners*, 1920-1, p. 4). On the other hand, in 1920-1 it cost $\frac{1}{2}800,000$ to collect $\frac{1}{2}5,000,000$ of income tax from wage-earners, or 16 per cent. of the yield. (Answer by Mr. Hilton Young to a Parliamentary question on February 14th, 1922). Other things being equal, the reduction of the standard rate of income tax from six to five shillings in the pound, unaccompanied by any increases in exemptions and allowances, will increase the proportionate cost of collection to close on 20 per cent. in 1922-3. The Reports of the Commissioners of Customs and Excise contain no statement of the cost of collection of customs and excise duties, mainly consisting of taxes on commodities. But we may infer from the Finance Accounts 1921-2, pp. 6-7, that the cost of collecting $\frac{1}{2}67,750,000$ or 2.03 per cent. of the yield.

be lower than that of a sales tax, or turnover tax, yielding the same revenue.

Reference has already been made to the general superiority of an income tax over a tax based on a capital valuation.¹ Other things being equal, the cost of collection of the latter will be greater than that of the former. It is practically inevitable, however, that an inheritance tax should be based on a capital valuation and the same is true of a special levy for the reduction of public debt.³ Taxes on corporations sometimes involve a capital valuation, as when the rate of tax is graduated according to the rate of profits on the capital employed. But the British excess profits duty and corporation profits tax, being based on income only, avoid this complication.

§ 2. It is also important to keep the gost of collection to the persons from whom the taxes are collected as low as possible. The olive growers in Turkey, who are legally forbidden to dispose of their olives, even though these should go bad through keeping, until the tax collector has called and counted them, would appreciate this precept. Even in more civilised countries taxpayers are often subjected to needless trouble in filling up a number of different forms, where one would be sufficient, and in replying to the demands of a number of different tax collectors, whose activities are not properly co-ordinated. It has been said that, just as a prudent man visits his dentist once a year, so a prudent and honest taxpayer should pay an annual visit to his Surveyor of Taxes, so that his affairs shall

* See Ch. VI, § 2.

See Ch. XXIII.

be kept in good order with a minimum of inconvenience. Again, some taxes necessarily involve much cost and trouble to those from whom they are collected, even though the latter may be able to pass the tax on to others. So far as it goes, this is an argument against such taxes. An example is the Italian tax on visitors' hotel bills, which compels hotel keepers to keep meticulously careful accounts in duplicate, on prescribed forms, for every visitor, to plaster these with stamps, to make periodical returns and to submit their books to frequent and prolonged examination by inspectors The cost of collection of this tax to the Italian Treasury must also be considerable. Even such a tax as the British entertainments tax is a source of much yexation to those from whom it is collected, and involves the employment of additional inspectors, whose salaries might be saved if the corresponding revenue were raised by additions to other older taxes.

§ 3. The effects of taxation upon the steadiness of employment are often misunderstood. It is sometimes supposed that taxation, especially of the rich, increases unemployment. But many of those, who entertain this idea, seem to suppose that the money collected in taxation is put into a stocking or thrown into the sea. In fact, of course, it is spent by the public authorities concerned. A transfer of purchasing power takes place from the taxpayer to the public authority, and therewith a transfer of the power to "give employment." As a result of this transfer, there may be a change in the character, but there is not likely to be any appreciable change in the total volume, of the demand for labour. Taxation, therefore, considered

jointly with the corresponding public expenditure, has no general tendency to cause unemployment. There is, indeed, a possibility that large and sudden changes in taxation may increase unemployment, through large and sudden displacements of labour. But this applies equally to taxation of the poor and taxation of the rich. Further, it applies to large reductions, no less than to large increases, in taxation. It is more important to notice that taxation may be used as part of a policy for steadying the demand for labour and so reducing unemployment.¹

§ 4. The habit of concentrating attention on the effects of taxation to the complete exclusion of the effects of the corresponding public expenditure, has led many eminent persons into error.

Thus Mr. McKenna, speaking with the double authority of a bank director and an ex-Chancellor of the Exchequer, has estimated the "taxable capacity" of the country on the assumption that no money, which is taken in taxation, is available for investment in industry.³ But what of taxation devoted to the reduction of public debt? If A is taxed fioo in order to pay off fioo of B's War Loan, B will probably reinvest a larger proportion of this amount, than A would have invested, if it had not been taken from him.

Again, Colonel Amery, at present a member of the British Government, has used the argument that the

¹See Ch. XX, § 2. Note also, though it is not likely in practice to amount to very much, the proposal in the *Majority Report of the Poor Law Commission* to encourage continuity of employment by imposing a tax on the termination of contracts of service.

^{*}In a speech at the Annual Dinner of the National Union of Manufacturers on June 14th, 1920.

Health Insurance Act imposes a tax on British industry, which affords a new and striking reason for "countervailing" import duties on foreign manufactured goods. But, in so far as public expenditure on health succeeds in its object of increasing the efficiency of British workers, it may be said to give a bounty to British industry and the "countervailing" argument might with equal plausibility be used by an ingenious foreigner in search of new excuses for protection in a less healthy land.

Finally, for these instances must not be unduly multiplied, the Daily Mail, in discussing the "taxable capacity" of Germany for the purpose of paying a war indemnity, has objected to a certain estimate as too low by comparison with the total of British taxation. But "taxable capacity," however defined, for the purpose of paying a war indemnity to another country is obviously less than taxable capacity for the purpose of paying for public expenditure in one's own country. For, in the former case, part of the product of industry is exported without any corresponding import and the community is to that extent necessarily poorer, while, in the latter case, no such one-sided export is caused and the community is not necessarily any poorer, but may even be richer, if its public finance is wisely conducted.

CHAPTER XIII

THE TAX SYSTEM FROM THE POINT OF VIEW OF ECONOMY

§ 1. The last three chapters have been devoted to a discussion of the economic effects of taxation. It is upon the balance of such effects that tax systems) must be judged from the point of view of economy. How far taxation should be carried, and how great use should be made of particular taxes, can only be decided, as was argued in Chapter II, by considerations of the smaximum social advantage to be derived from the operations of public finance as a whole. There is no desirable limit to the increase of any particular tax, except that the social loss, if any, from such an increase should not be greater than the social loss from an equivalent increase in any other practicable tax. There are no desirable limits to the increase of) taxation in general, except that the social loss from such an increase should not be greater than the social loss of raising further public income by some other method than that of taxation." The chief of such other methods, apart from borrowing, which is discussed in Part IV, will be considered in the next two chapters.

§ 2. As to the ideal distribution of the direct money burden of taxation, considerations of economy lead us to no such simple solution, as the exponents of 'Nor, of course, greater than the social gain from the corresponding increase of public expenditure.

126

equitable formulæ so glibly provide. Nor can we ignore the indirect burdens and other incidental effects of taxation. We may, indeed, still say that taxation should be distributed according to "ability to pay." But we must now interpret this last phrase more broadly. We must measure the relative ability of ! individuals to pay by the relative effects of their payments, not only upon distribution, but upon production and, indeed, upon the whole economic welfare of the community. Thus A's ability, as compared with B's, to pay a given sum under a given tax system. depends upon the relative economic loss resulting from payment in the two cases, account being taken, not only of the direct loss of economic welfare to A and B respectively, but also of any indirect loss, or gain, to others. Taxation according to ability to pay means. therefore, taxation with the minimum of economic loss to the community as a whole.

⁴ But one important practical conclusion, which emerges clearly from the argument of the preceding chapters, is that there is no reason, on grounds of economy, why all, or even the majority of, the members of a community, in which great inequality of incomes prevails, should contribute to taxation. No equitable doctrine, such as equal or proportional sacrifice, which presupposes some contribution, however small, from all who have any economic welfare to sacrifice, finds any strong support in considerations of economy.¹

¹The plausible argument that everyone ought to pay something, in order that a sense of political responsibility shall be widely diffused and a check imposed on public extravagance, does not seem to me to be a strong one. For (1) much taxation, especially taxes on commodities, which are the most convenient method of securing We are rather drawn towards the doctrine of minimum sacrifice, with its widespread exemptions for the poorer sections of the community and steep progression for the richer, but this doctrine, as we have seen, must be interpreted more broadly by economy than by equity, so as to mean minimum sacrifice in the long run, when all economic effects, including effects on production, are taken into account. And this is much the same thing as maximum social advantage on a long view, so that we come back again to the general principle from which we started. It cannot be claimed that the last three chapters have amplified the principle itself, for its very simplicity and comprehensiveness make this impossible. But they should have thrown light upon its practical application.

a contribution from the poor, is not clearly realised by the taxpayer; (2) a sense of political responsibility is often found, independently of the consciousness of paying taxes, and, where it is absent, such a consciousness will seldom be sufficient to create it; and (3) where a dislike of taxation is keenly developed, especially if its development is provoked by the undiscriminating irritant of a press campaign, false economy, rather than true, is likely to result. Compare Ch. VI, § 5.

CHAPTER XIV

INCOME FROM PUBLIC PROPERTY AND PUBLIC ENTERPRISES.

§ I. All public authorities, in varying degrees, own property and conduct economic enterprises. Net money income derived by a public authority from its: property or enterprises is an addition to its net income. and the receipt of such income makes marginal taxation¹ less desirable and marginal expenditure more desirable than would otherwise have been the case. In other words, the receipt of such income justifies a public authority in taxing rather less and spending rather more than it should otherwise do. Often, however, a public authority's property and enterprises are burdened by debts to private persons incurred in respect of their acquisition or development. In such cases debt charges, both for interest and sinking fund, must be deducted from receipts, before the public authority's net money income from these sources can be estimated.

 2. Political considerations require that public authorities should undertake certain functions, which necessitate the ownership of property and the conduct of enterprises. The ownership of its armaments and

¹Including the taxation, if any, included in the prices charged by the public authority for services which it supplies. See § 6 of this chapter.

INCOME FROM PUBLIC PROPERTY

the enterprise of maintaining and training itz armed forces and, to some extent at least, of actually producing armaments are obvious examples. But a public authority cannot hope to obtain any net money income from the performance of these functions. Again, the enterprise of issuing legal tender money, sometimes, as will be explained in the next chapter, an important source of income to a public authority, is governed partly by political and partly by economic considerations.

But it is predominantly the latter, which in most cases bear upon the desirability of a public authority lowning property and conducting enterprises. We have here to consider the effects of such arrangements upon production and distribution.

§ 3. Mere passive ownership by a public authority, as compared with passive private ownership, will have comparatively small effects on production. If the terms of his tenancy are the same in both cases, it makes no substantial difference to a tenant whether his landlord is a public authority or a private person. In some cases it may be argued that the development of natural resources would have been more effective. and productive methods less wasteful, under public than under private ownership, especially when the latter is much subdivided among proprietors, whose co-operaation is essential to efficient production, but in practice is not forthcoming. This argument was forcibly presented before the British Coal Commission in 1919. In other cases, it may be maintained that private ownership gives the greater stimulus to development.

Active ownership, on the other hand, which soon merges into actual conduct of enterprises by a public

10

sauthority, may have very great effects on production. A public authority may be either more or less efficient in the present than a private individual or corporation; it may make better or worse provision for the future ; it may make greater or less use of monopoly power to restrict output and raise prices. Nothing more can usefully be said here about these possibilities without embarking on a general discussion of schemes for the nationalisation of industry. And this would be too lengthy a digression.

§ 4. As regards effects on distribution, public ownership of property, provided that the latter is free, or at least partly free, from private mortgage, will generally be better than private ownership. For, the larger the proportion of property which is publicly owned in any community, the less unequal is distribution likely to be.^I The reason for this is that the benefits from public property are likely to be more equally distributed than the benefits from private property. The same argument applies to some extent in favour of the conduct of enterprises by public authorities. But effects on distribution are partly dependent on the price policy which a public authority pursues.

§ 5 The most appropriate price policy will vary with circumstances. Payment may be made for services rendered by a public authority according to any of three alternative principles, or according to various combinations of these principles.

Payment may be made, in the first place, out of general taxation, collected from individuals without reference to the cost of the service rendered to them.

* See my Inequality of Incomes, pp. 276 8.

This is the principle adopted as regards the cost of the military forces, the civil service, free education and poor relief. We may call it the general taxation principle.

Payment may be made, in the second place, by compulsory charges, collected from individuals in proportion to the cost of the services rendered, or presumed to be rendered, to them. This is the principle usually adopted as regards the supply of gas, electricity and water by local authorities, as regards the cost of road repair, in so far as it is debited to owners of motor vehicles by means of a tax based on their weight or horse-power, and as regards such services as street cleaning and dust collection, paid for out of local rates. We may call it the compulsory-cost of service-principle.

Payment may be made, in the third place, by voluntary purchases by individuals at prices fixed by the public authority. This is the principle usually adopted as regards the cost of postal services and publicly operated transport agencies. We may call it the voluntary price principle.

§6. In this third case the further question arises whether prices should be so fixed, as to result in a profit or a loss to the public authorities, and, in either case, how much. Where a price is charged, but a loss is incurred and made good out of general taxation, we have a combination of the voluntary price principle and the general taxation principle.

Taking, first, passive ownership of property by a public authority, no appreciable public costs being involved, it is reasonable, as a general rule, to make the same charges to private users of such property as a

. . . 131 consumption. But a check to consumption is a necessary effect of such a policy. If it is desired to make a publicly supplied service or commodity a large source of revenue, it is practically necessary to establish a legal public monopoly, as various European governments have done with tobacco, matches and other commodities. For otherwise private traders will undersell the public authority and steal away the revenue. Thus the French government has not only established a State match monopoly, but legally prohibits the sale of mechanical lighters and other substitutes for matches.

Where, on the other hand, considerations of social advantage require that the use of the services in question should be specially encouraged, lower prices, or even no price at all, may reasonably be charged and the resulting loss made good out of taxation. This policy involves public expenditure and the circumstances, in which it should be adopted, will be discussed later." Sometimes, however, it is adopted, not with the motive of stimulating consumption, but simply because it is the most convenient arrangement. This explains, for example, the free use of roads, turnpike gates being inconvenient, and the free postage allowed to the British army during the war, where the practical difficulty of selling stamps in the trenches reinforced sentimental considerations. In all such cases of free supply the voluntary price principle disappears and the general taxation principle 'takes its place.

The general effect upon distribution of these alternative methods of securing payment, according to the voluntary price principle, for services supplied by a

See Chs. XVIII-XIX.

public authority is fairly clear. If a service is supplied at a loss, those persons benefit who make most use of it; if it is supplied at a large profit, based on high prices, those persons lose who make most use of it. Thus the supply of a particular service at a loss will make for a more equal distribution, if it is chiefly used by the poor than if it is chiefly used by the rich.^I And the reverse is true of a service supplied at a large profit. Distribution may also be slightly affected, if the same service or commodity is supplied at different prices to different persons according to their wealth. But price discrimination of this kind is not often practicable.

§7. As between the general taxation principle, the compulsory-cost of service-principle and the voluntary price principle, the choice often depends, as has already been pointed out, largely upon practical convenience. But there are some cases in which, the voluntary price principle being ruled out as too inconvenient, the compulsory cost of service principle is preferable to the general taxation principle, from the point of view of effects on production. An example is the cost of road repair, in so far as this is necessitated by damage done to road surfaces by motor vehicles, or the cost of new road construction, or road widening, necessitated by the excessive congestion of traffic on existing roads. If such costs are covered by general taxation, there will be a tendency to an excessive diversion of economic resources from other channels into the development of motor road transport,

⁴Obviously also, in considering the effect upon distribution of supplying a service at a loss, account must be taken of the general character of the tax system, which will be required to make good the loss.

which will, in effect, be receiving a large subsidy from the general taxpayer and, incidentally, from other transport agencies. For reasons discussed in Chapter X § 9, there is a presumption that such a diversion will reduce production, and there is, therefore, a case for a special tax on motor vehicles, sufficient to cover the special costs, which they would otherwise occasion to the public.

§8. Returning to public property and enterprises as a source of public income, we may repeat that such income may be of two kinds, first, the equivalent of taxation, where a public authority deliberately charges monopoly prices for its services and, second, the equivalent of profits from ordinary competitive prices, such as a private proprietor or business firm might charge, under competitive conditions, for the use of property or the supply of services. A large public income of the second kind is easily obtainable, without any serious prospect of economic loss to the community, by public authorities which retain the ownership of minerals and, subject if necessary to long private leases, of land, both agricultural and urban. If such obvious opportunities, not to speak of others which are more doubtful, had been more commonly taken in the past, modern communities would be able both to spend more freely on desirable public objects, and to escape part of their present heavy burden of taxation.

CHAPTER XV

INCOME FROM THE PUBLIC PRINTING PRESS

§1. A special form of enterprise, which can be made to yield a large income to a public authority. is the use of the printing press to manufacture legal tender paper money. This is commonly called currency inflation and the printing press may be used for this purpose either directly or indirectly. It is used directly when a public authority pays its creditors with new paper money specially printed for the purpose. It is used indirectly when a public authority pays its creditors out of bank loans to itself and issues new paper money to the banks, in exchange for a deposit of securities, in order, as it is sometimes put, "to support the additional credit thus created." or in other words, in order to save the banks from having to face the alternatives of raising their rates of interest to inconvenient heights or seeing their reserves dangerously depleted For, if the banks were not thus protected, they would be unwilling to furnish public authorities with loans on the scale required. The indirect method of using the printing press has been employed in this country since 1914, and both methods have been, and are still being, employed on the continent of Europe. There is no essential difference between the economic effects of the two methods, except that the indirect method, besides mystifying simple minds, involves the

public authority in the additional expense of paying interest on its loans from the banks.

If, therefore, either method of currency inflation is to be adopted, the direct method is to be preferred on the ground both of economy and of intelligibility to the public.

§ 2. The first effect of inflation is that the purchasing power of the money, the supply of which is thus increased by the public authority, falls. The purchasing power of any country's money has two aspects, internal and external. A fall in internal purchasing power means a rise in the internal price level. A fall in external purchasing power means a movement, adverse to the country in question, in the rates of foreign exchange with all those countries, which are either abstaining from inflation, or indulging in it only in a more moderate degree. Such movements in prices and exchange rates, predominantly due to inflation, are the sensational commonplaces of modern economic experience. And the end is not yet.

§3. It is sometimes said that the issue of a given amount of new paper money by a public authority is equivalent to the levying of a forced loan, free of interest, to that amount. It is simpler and more correct to say that it is equivalent to the levying of taxation to that amount, though the purchasing power, in the hands of the public authority, of successive equal additions to the supply of paper money decreases as the value (per unit) of the money falls. If all internal prices, including the prices of services and interest on loans, rose equally, this taxation would fall upon individuals exactly in proportion to their incomes.

But, in fact, all prices do not rise equally. Wages lag behind the prices of commodities during an upward movement, while investors in gilt-edged securities and other recipients of fixed money incomes suffer the full force of the fall in the value of money. Inflation, a therefore, causes a redistribution of income in favour of business men, who secure large windfall profits, at the expense of wage-earners and, still more, at the expense of the recipients of fixed money incomes.13 On balance, inflation is likely to increase the inequality of incomes and operates, in effect, not as a proportional, but as a regressive tax. This consideration alone limits the desirability of inflation as a means of raising revenue. For, as we have already seen,² a regressive tax, unless its influence is heavily outweighed by progressive taxes, is objectionable from the point of view of distribution.

§4. The effect of inflation upon production is sometimes thought to be stimulating, since business men are encouraged by unwonted gains to undertake new enterprises. But, as recent economic history

¹Writing in July, 1922, Mr. Keynes estimated that, as regards "medium fortunes." invested in gilt-edged securities, "the monetary events which have accompanied and have followed the war have taken from them about one-half of their real value in England, six-sevenths in France; eleven-twelfths in Italy, and ninety-ninehundredths in Germany. This is apart from the increased burden of taxation." (Manchester Guardian Commercial, Reconstruction in Europe, Section Five, p. 324). In particular, an internal public debt, bearing a fixed rate of money interest, is gradually wiped out by continuous inflation. It is a nice point of dialectics, whether or not this process amounts to "repudiation." See Ch. XXIII, § 2. It may be added that, in so far as depreciating paper is bought and held by foreigners, the latter contribute to the revenue of the public authority, which is practising inflation.

*See Ch. IX.

INCOME FROM THE PRINTING PRESS 139

shows, this is only a temporary and unhealthy stimulus, carrying within itself the seeds of subsequent severe [relapse. In a world of super-men, coolly and accurately calculating the future, this would not be so. But many of the business men of reality are not of this kind. Doped by artificial prosperity, they become first lighthearted and then light-headed, miscalculate prospects, ... and launch enterprises which are economically unsound. The mere cessation, sometimes even a mere slackening in the rate, of inflation is enough, without any positive. deflation, to break the illusion, to destroy "business confidence." and to put out of action, sometimes for considerable periods, a large part of the productive power, which these business men control. On the other hand, the continuance of inflation, and the expansion, even at a constant rate, of the paper currency, sooner or later destroys the confidence, not only of business men, but of the whole community, in the future value of this currency. Then comes the stage, which journalists call "the flight" from the currency, everyone trying to get rid of it, in exchange for goods and services, as quickly as he can, and to conduct transactions, as far as possible, without making use of it at all. In other words, there is a sharp fall in the demand for this discredited money, and an increase, more than in proportion to the increase in the total supply, in that part of the supply which is offered for exchange at any given moment. Hence the fall in its value, both internal and external, is sharply and continuously accelerated. Under such hectic conditions, which have already come to pass in several European countries, organised production becomes

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PUBLIC INCOME

140

impossible and all economic transactions, other than by primitive barter, are reduced to a wild gamble. Economic chaos, political upheavals and, perhaps, violent revolution are then not far away.

§ 5. From the revenue point of view, resort to the printing press is often the line of least resistance for an embarrassed government, which dare not cut down expenditure nor take the steps necessary to pay its way by taxing straightforwardly or offering sufficiently high rates of interest to attract an adequate supply of new savings. The comparative acquiescence of public opinion in taxation by inflation is a measure of public ignorance of economic principles and of the inability of wage-earners, and still more of the recipients of fixed money incomes, to safeguard their economic interests.

Further, even from the point of view of raising revenue, the yield of inflation, if pushed beyond a certain point, rapidly dries up. For, as has already been pointed out, not only does the value of paper currency fall as its supply increases, but, after a certain point, when the flight from the currency begins and becomes gradually more and more precipitate, the value per unit falls much faster than the supply increases. Hence, in order to obtain from inflation a given purchasing power, or "command of real resources," a public authority must work the printing press ever faster and faster, and, by this very process, accelerates the flight, the effects of which it is seeking to counteract.

CHAPTER XVI

OBJECTS AND CLASSIFICATION OF PUBLIC EXPENDITURE.

§r. English economists as a body have had surprisingly little to say concerning the principles of oublic expenditure. As an American critic observes, "the older English writers did not need a theory of expenditures, because the theory of government which they held implied a fixed limit to governmental functions." Typical of such writers is Sir H. Parnell, an early nineteenth century pundit, who maintained that "every particle of expenditure beyond what necessity absolutely requires for the preservation of social order and for protection against foreign attack is waste and an unjust and oppressive imposition on the public."² On this pronouncement the comment has been made that, if so, we must give up growing crocuses in the public parks, unless it can be proved that they preserve social order, for they are certainly no protection against foreign attack. This barren and h negative view of the proper economic activities of the I State still finds some support. It is still true that, in some influential circles, "the dull and drab extravagance of private living is accompanied by a severe scrutiny of any kind of public expenditure."3 and that "publice

- Adams, Science of Finance, p. 53.
- * Quoted by Adams, ibid, p. 50.
- Masterman, The Condition of England, p. 23.

egestas, privatim opulentia," is not much less apt a motto for modern Europe than for ancient Rome. Modern economists, especially in this country, have been slow to correct vulgar prejudices on this matter and to place the whole question, from the point of view of principles, upon a proper footing.

One fortunate result of this lack of theoretical discussion is that the path of economic wisdom in public expenditure is practically unencumbered by doctrines of equity. The "passive resistance" of Mr. Lloyd George and other Nonconformists to the support of Anglican schools out of local rates was, indeed, based on considerations of equity as between different religious denominations. But this was transitory and trivial. Again, when non-contributory old age pensions were first instituted in this country, they were sometimes spoken of as "doles," a disparaging term which carried some faint suggestion of inequity. Unemployment benefit is now similarly described. But it is characteristic of the sensitiveness of conceptions of equity to changes in public opinion that, when new forms of social expenditure become familiar, they are generally taken for granted and no longer thought to be inequitable.

To turn to another point, however, clear thinking is sometimes hindered by the doctrine that "the State has needs of its own," which can only be satisfied through public expenditure. Taken literally, this is a piece of Hegelian nonsense; taken metaphorically, it is a woolly phrase which leads us nowhere. The truth is, of course, that only individuals have needs, but that some of these needs can be most effectively satisfied through the agency of the State and by means of public expenditure.

§ 2. We may recall the principle, stated in Chapter III, §§ 2-3, that public expenditure should be carried just so far that the marginal social advantages of expenditure in all directions are equal, and just balance the marginal social disadvantages of all methods of raising additional public income. Many objects of public expenditure are not exclusively, or even mainly, economic, though most have economic effects and all have economic costs.

A broad distinction may be drawn between public expenditure designed, on the one hand, to preserve the social life of the community against violent attack, whether internal or external, and, on the other, to improve the quality of that social life. In other words, the object may be either to keep social life secure and ordered, or to make that secure and ordered life better worth living, whether from an economic or a noneconomic point of view.

§ 3. Turning to the actual expenditure of modern public authorities, the following is an obvious catalogue:

(1) the maintenance and equipment of armed forces, including police, (a) in peace, (b) in war;

(2) the administration of justice;

(3) the maintenance of the ceremonial head of the State, including, in monarchical countries, the Royal Family and Court, and of diplomatic representatives abroad;

(4) the maintenance of the machinery of civil government, including ministers, legislators and civil servants;

(5) public debt charges, including interest, repayment of principal and cost of management;

(6) expenditure directly devoted to "fostering industry and commerce," such as the maintenance of consuls abroad and the performance of industrial and commercial functions, such as the supply of currency, conduct of postal services, transport services, etc. :

(7) "social expenditure" on health, education, old age pensions, poor relief, provision for unemployment, etc.

This is an empirical catalogue rather than a scientific classification. It is convenient rather than strictly logical. For example, the salaries of the Minister of Education and his staff come under (4), whereas they should, perhaps, come under (7). But such points are unimportant. Net expenditures, and not gross, are significant. For example, postal services are only an object of net expenditure, if the gross expenditure exceeds the receipts, and the administration of justice should be credited with the court fees paid by litigants. Broadly speaking, we may say that (I), (2) and (3) are expenditures designed, at least ostensibly, to keep social life secure and ordered. So is a large part of (4). So, if we look to its origin, is most of (5), for the great bulk of outstanding public debts have been incurred for purposes of war. On the other hand, (6) and (7)together with part of (4)-the salaries of factory inspectors, for example-and that part of (5) which covers debts incurred for purposes of economic development, are designed to make that secure and ordered life better worth living. Within this latter group of expenditures, however, the motives to economic and

OBJECTS OF PUBLIC EXPENDITURE 147

non-economic improvement are often mixed. Expenditure on health and education are examples. It is not the only, or indeed the chief, advantage of being healthy or educated, that one is thereby enabled to produce more wealth or to obtain a larger income.

§4. Classifications, as distinct from catalogues, of public expenditure may follow several alternative principles. One, which is adopted in various textbooks, divides expenditures according as they confer special benefits on particular members of the community, or general benefits on all members, or benefits which are partly general and partly special. To this division, which is relevant to a discussion of the effects of public expenditure upon the distribution of income, we shall refer again in Chapter XIX. There is, however, another distinction which it is convenient to consider first, since it arises at an earlier stage in the process of public expenditure. This is the distinction between grants and purchase prices.

CHAPTER XVII

GRANTS AND PURCHASE PRICES

§ I. The division of public expenditure into grants or subsidies, and purchase prices, corresponds to that of public income into taxes and selling prices.^{*} An individual, who receives public money, may or may not render in return a direct quid pro quo to the public authority. In the former case the public authority makes a purchase of services or commodities ; in the latter case it makes a grant. This grant may consist of money, or of services, such as medical treatment, or education, or the security presumed to be derived from armaments or police. Thus payments by a public authority for the services of soldiers, judges and civil servants, and also of private contractors employed by it, are purchase prices. On the other hand, payments of old age pensions, poor relief, or benefits provided out of public money under schemes of: health and unemployment insurance, are grants.

Just as there are costs of collection of taxes, so there are costs of administration of grants. These are, from the public authority's point of view, purchases incidental to grants. Thus a teacher's salary is a purchase incidental to the grant of free education, and a soldier's pay is a purchase incidental to the grant of security.

Payments of interest on public debts may be regarded either as purchase prices or as grants. If we look to

" Compare Ch. IV, § 2.

their origin in the past, they aré purchase prices, paid for the investment of money in public securities. But, if we look to their character in the present, they are grants. For the receivers of interest are not rendering any present quid pro quo to the public authority. It is more convenient, therefore, in a study of things as they are, to treat these interest payments as grants. But sinking fund payments, devoted to buying up and cancelling public securities, are purchases. Similarly pensions of all kinds are most conveniently classed as grants, though in some cases they may be regarded as deferred payments for past services rendered by the recipients.

§ 2. The parallel between taxes and grants on the one hand and purchase and selling prices on the other, may be carried a good deal further. Just as a selling price may involve an element of tax, as when a public authority is selling a service or commodity above the price which a non-monopolist private seller would charge, so a purchase price may involve an element of grant, when a public authority is buying above the price which a non-monopolist private buyer would offer. Again, a public enterprise run at a loss, which is made good out of taxation, involves grants, in proportion to their purchases, to all those who purchase the products of the enterprise.

Again, grants, like taxes, may be classified as direct and indirect.¹ A grant may be said to be direct, if the whole benefit accrues to the person to whom the

² Compare Ch. V, § 2. A grant is, in effect, a negative tax and therefore, to every proposition regarding taxes, there corresponds a proposition regarding grants.

grant is made. It may be said to be indirect, if the benefit is passed on, in whole or in part, from the person to whom the grant is made to some other person, owing to a change in the terms of some bargain between them. Thus an old age pension is a direct grant. But a subsidy to a private house builder, proportionate to the number or value of the houses which he builds, is an indirect grant. For in this case part of the benefit is passed on to tenants in the form of reduced rents and a larger supply of houses.

The incidence of grants presents a problem similar to that of the incidence of taxes.¹ The incidence of a (money) grant is upon those who receive the direct money benefit of the grant. The incidence of a direct grant is, by definition, wholly on the person to whom the grant is made. The incidence of an indirect grant. or subsidy, in respect of any commodity is divided between the buyer and the seller in the ratio of the elasticity of supply of the commodity to the elasticity of demand for it. For, the more elastic the supply, the more will the supply increase, as a result of a given fall in the cost of production, allowing for the subsidy, and the greater, therefore, will be the fall in price corresponding to any given elasticity of demand. The greater, therefore, will be the proportion of the incidence which will be on the buyer. On the other hand, the more elastic the demand, the more will the demand increase, as a result of a given fall in the price of the subsidised commodity, and the less, therefore, will be the fall in price corresponding to any given

^I Compare Ch. VII, and especially § 2.

elasticity of supply. The greater, therefore, will be the proportion of the incidence, which will be on the seller.

Thus the incidence of a subsidy, or grant, to builders of new houses will be divided between the builder and the tenant or purchaser in the ratio of the elasticity of supply of new houses to the elasticity of demand for them. The case is similar to that of the incidence of a tax, or rather of the reduction of a tax, on buildings, which was considered in Chapter VIII, § 3. " It is reasonable to conclude that builders would generally be compelled to pass on an appreciable part of the grant to the occupiers of the new houses. Further, a general fall in the level of house rents, as a result of the grant. would benefit also the occupiers of old houses. The freeing of new houses from onerous rates, as proposed in Chapter X, § 11, would be equivalent in effect to a grant from public funds to the builders of new houses.*

§ 3. Again, just as the proper distribution of the burden of taxation from the point of view of equity is a possible subject of discussion,⁴ so is the proper distribution of the benefit of grants.

Take, for instance, the conception of "ability to pay" taxation. Corresponding to this we may formulate a conception of "ability to receive" grants. But, just as "ability to pay" must be interpreted to mean

⁵ A further effect of such a policy would be a rise in the wages of labour employed in the building industry and in the prices of building materials. But this carries us out of the narrower sphere of incidence into the wider sphere of effects.

^{*} Compare Ch. IX.

ability to pay with a minimum of economic loss." so "ability to receive" must mean ability to receive with a maximum of economic gain. From the three* alternative applications of the principle of ability to pay, regarded as a canon of equity, namely minimum sacrifice, proportional sacrifice and equal sacrifice, we may derive three alternative applications of the principle of ability to receive, namely maximum benefit, proportional benefit, and equal benefit. Maximum benefit would be attained, as a first approximation, by making no grants to anyone whose income was greater than a certain amount, and by raising all smaller incomes, by means of grants, to exactly this amount. But, though suggestive, this plan, as it stands, is too crude to be feasible. Nor is there much to be said for adopting the principles of either proportional or equal benefit without further examination of details. Again, corresponding to the equitable precept that the inequality of incomes should not be altered by taxation, is the precept that this inequality should not be altered by grants. From the latter precept, which is no more acceptable than its mate, it will follow that, other things being equal, the richer of two old men should always receive the larger old age pension.

Just as a particular tax, or a tax system as a whole, may be either proportional, progressive or regressive, so may a particular grant, or a grant system as a whole. Under a progressive grant system, the larger the recipient's income, the smaller the proportion which is added to it by grants, while under a regressive grant

^x See Ch. XIII, § 2.

system, the larger the income, the larger the proportion which is added by grants.^x

§ 4. Finally, just as, with taxation, incidence is only part of the wider question of effects, so it is with grants. The next three chapters, therefore, will be devoted to a discussion of the economic effects of grants, and of public expenditure generally. As in the corresponding case of taxation, more light is thrown upon the practical desirability of various policies by such a study in economy than by considerations of equity.

² We might, if we preferred, reverse these meanings of the terms "progressive" and "regressive," as applied to grants. But it seems better to use the same terms to describe both taxes and grants, which tend to diminish the inequality of incomes, or to increase it, as the case may be.

CHAPTER XVIII

THE EFFECTS OF PUBLIC EXPENDITURE ON PRODUCTION.

§ I. The distinction between grants and purchase prices is less prominent in this chapter, which is concerned with the effects of public expenditure on production, than in the discussion, which occupies the next chapter, of the corresponding effects on distribution. In this chapter the essential fact is that public expenditure, combined with taxation and other methods of raising public income, causes large diversions of economic resources from the channels, into which they would otherwise have flowed, into channels determined by public policy, and may consequently cause large changes both in the character and in the total volume of production.

Just as taxation, other things being equal, should reduce production as little as possible, so public expenditure should increase it as much as possible.

§ 2. Many people do not seem to realise that public expenditure can ever increase production. Consider, for example, the following pronouncement. "The proportion of government expenditure to national income is several times as great as it was before the war, which means that a far smaller proportion of that income is available for provision for old age, for saving

PUBLIC EXPENDITURE AND PRODUCTION 155

and business enterprise."¹ It is here apparently assumed that "government expenditure" may be simply subtracted from "the national income," and that the result of this subtraction represents what " is available for provision for old age, for saving and business enterprise." In this view of the matter two essential facts are completely ignored. The first is that much public expenditure involves mere transfers of purchasing power within the community. Payment of interest on internal public debt and payment of old age pensions are simple examples of such transfers. The authors of the pronouncement just quoted seem to suggest that none of the dividends on War Loan are ever saved, and that old age pensions are not a provision for old age. The second essential fact which is ignored is that much public expenditure, on education and public health for example, directly increases the productive power of the community, and hence the fund available for the purposes to which the authors refer.

A correct view of the effects of public expenditure on production can only be reached by following a line of enquiry parallel to that of Chapter X on the effects of taxation on production. It is necessary to consider successively (1) effects upon ability to work and save, (2) effects upon desire to work and save, and (3) effects of diversions of economic resources as between different employments and localities.

⁴ From a letter on "Prodigal Public Expenditure," appearing in the Manchester Guardian, and probably in other papers, on July 16th, 1920, and bearing the following signatures: "Askwith, Chalmers, Cowdray, A. Herbert Dixon, R. A. Hadfield, Incheape, Islington, Godfrey Locker-Lampson, Walter Leaf, Midleton, John Denison Pender, W. Peter Rylands, Salisbury, Selborne, Arthur Steel-Maitland, Richard V. Vassar-Smith." § 3. Before taking up these lines of thought, we shall make a digression. A large part of modern public expenditure is devoted to purposes which make no direct contribution to economic welfare. Expenditure on armaments and armed forces is the most striking example of this and it is often said that such expenditure is economic waste. For men cannot eat guns or bayonets or high explosives. And the multiplication of battleships is not an economical solution of the housing problem.

The economic waste and destruction of modern warfare need no emphasis, though many of the most overwhelming evils which war brings with it-pein and terror, anxiety and bereavement, hatred and moral degradation, especially among non-combatants-lie outside the economic sphere. But it is undeniable that war expenditure, which results in preventing or limiting invasion or in securing military victory, indirectly diminishes the economic loss which invasion or defeat would otherwise have caused. It is even possible that, in exceptional circumstances, a short and successful war may bring to a community as a whole a balance of economic gain, and nearly every war brings gain to a favoured few, even among the vanquished. But, if the speeches of statesmen are the key to history, such possibilities of economic plunder play no part in the diplomacy, which from time to time launches a multitude of lives upon a sea of death. It is, rather, to the noneconomic tunes of "national honour," " the defence of liberty" and "the sanctity of treaties" that the young men, on both sides, march away. Economic considerations enter, perhaps, only as an afterthought, when the

PUBLIC EXPENDITURE AND PRODUCTION 157

time at last arrives to commemorate the glorious dead and to draft new treaties of peace to replace the old.

But the simple economist, unversed in these diplomatic mysteries, cannot deny that the services of soldiers and sailors, and even of armament manufacturers, may, under favourable conditions, contribute to his security and are thus in principle entitled, no less than the services of plumbers, scavengers and fire brigades, to a place in the "national dividend" of utilities. Here, however, as elsewhere, there is need for [economy, in the true sense, and a danger that the diversion of resources into this channel may be either too great or too small. In time of peace, national expenditure on armed forces and their equipment has the peculiarity that it is almost wholly determined by relative standards. What each nation aims at is to be strong, not absolutely, but relatively to other nations. This is admitted on any view of foreign policy. Such catch phrases as a " one-power standard," or " two keels to one," illustrate it. A fifty per cent reduction in the armed forces of all nations would leave them all in much the same apparent state of security or insecurity as before. And the same is true of a fifty per cent increase. But an all-round increase in armed forces, while adding nothing to apparent relative security, subtracts economic resources from other uses, in which they would have made a direct contribution to economic welfare. The communities concerned have less economic welfare and no greater security." In fact, they will almost certainly have less security. For this depends, not only upon the relative strength of armed forces, but upon the state of men's minds and the extent to which they meditate on

the possibility of war with their neighbours. Security, in other words, is not only material but psychological. And the greater the part which armed forces and armed habits of thought play in the life of a community, the smaller is the psychological security against war. The era of competitive European armaments, which filled the statesmen of each country with an ever-growing fear of their neighbours and ended in the blundering outbreak of 1914, is sufficient proof of this. It is, indeed, very obvious that the cutting down of armed forces, all the world over, to the level of an international police force would be a condition alike of maximum security and maximum economic welfare. What is required here is an international agreement for the limitation of output.

Armed forces for defence, or aggression, against external foces, fall into the same class as domestic police, courts of justice, factory inspectors, and many other things, expenditure on which would be largely unnecessary if only men were a little wiser, or more imaginative, or more honest, than they are. It is to be sharply distinguished from that other class of expenditure, on education for instance, which will always be necessary, either from public or from private funds, whatever changes may take place in average human conduct or outlook.

§ 4. We may now return to the effects of public expenditure upon people's ability to work and save.

Just as taxation will reduce a man's ability to work, if it diminishes his efficiency, so public expenditure will increase it, if it increases his efficiency. This opens a wide field for socially desirable expenditure, which will

be further considered below under the head of diversion of economic resources. But it may be pointed out here that grants in money may increase the efficiency, not so much of the direct recipients, as of their children in the future. This is an important part of the case for widows' pensions and similar proposals. Further, certain grants in kind, such as educational and medical services and even, perhaps, house accommodation at "uneconomic rents," will do more to increase efficiency than equivalent grants in money, which would often be spent to less good purpose. Such reactions of grants upon efficiency are one measure of the recipients' "ability to receive," which is analogous to taxpayers' "ability to pay."

Again, just as all taxation will reduce the victim's ability to save, if he has any margin out of which saving is possible, so all public expenditure will increase the beneficiary's ability to save, in so far as it gives him any additional margin of this kind. If froo is taken from A by taxation and handed over to B—it matters not whether as dividends on War Loan, or as part of a civil servant's salary, or on any other pretext—the increase in B's ability to save offsets the decrease in A's ability.

§ 5. Turning from effects upon people's ability, to effects upon their desire, to work and save, it was argued in Chapter X § 3 that in this respect the expectation of future taxation is more important than the fact of present taxation. The expectation of future benefits from public expenditure has, likewise, an important influence. In many cases the amount of these future benefits, so far as grants are concerned, is independent

of the amount of the recipient's future work and saving. War pensions and interest on present holdings of War Loan are examples. The expectation of such fixed, periodical and, so far as the future is concerned, unconditional grants is seldom^r likely to increase desire to work or save, and, where demand for income in terms of effort is very elastic, it is likely to decrease this desire so much that the effort put forth will produce an income smaller by nearly the full amount of the grant. But not all grants are thus fixed and unconditional. The prospect of a conditional grant, which will be paid only in the event of sickness or involuntary unemployment, will not decrease present desire to work. In some circumstances it may even increase it.* Again, the prospect of a grant, which is not fixed but increases with the future efforts of the recipient, such as a bounty on his earnings or savings, would, unless demand for income was very elastic, increase his desire to work or save. But grants of this kind are not often feasible in practice. On the other hand, the prospect of a grant, which diminishes with the future efforts of the recipient, will certainly check his desire to work and save. It is a defect of the British old age pension system that it acts in this way. This defect could be completely remedied by making the pension payable in full, without deduction, to all persons reaching the pensionable age.

¹ Though sometimes the expectation of a small fixed minimum income in the future will, by creating a foundation of security, make it seem more worth while to build on this foundation than it would have been to start building without it.

⁴ Expenditure designed to prevent unemployment may also prevent that decreased desire to work, which, after long spells of unemployment, often accompanies decreased ability to work. See Ch. xx, § 2,

But this, though it would save certain administrative expenses, would involve the grant of pensions to millionaires, which would seem to be an unjustifiable extravagance. A partial and less expensive remedy would be found in making a deduction from the full pension in the case of persons whose income, apart from the pension, was in excess of a certain amount. but in such a way that the deduction was always less than the excess. For example, the full pension might be paid to all persons reaching the pensionable age, whose income apart from the pension was not greater than 12 a week, and a deduction of 6d, a week might be made from the full pension for every shilling by which the weekly income exceeded f2. But this would only be a partial remedy, since the deductions would still operate, in the case of persons subject to them, to reduce the net income from a given amount of work and saving. Where, therefore, demand for income was elastic, there would still be some check to the desire to work and save.

§6. We may now go on to consider the effects on production of <u>diversions</u>, due to public expenditure, of economic resources as between different employments and localities. Taking first, diversions as between different employments, the special case of expenditure on armed forces has already been discussed. Akin to this are all other cases of expenditure designed, according to the classification adopted in Chapter XVI, §2, to keep the social life of the community secure and ordered. All that can be said of such expenditure, in the present connection, is that it should be governed by the principle of economy. The advantage of a little more security and order must be balanced against

PUBLIC EXPENDITURE

the disadvantage of doing without those other commodifies and services, which would otherwise have been produced. Too much, no less than too little, may be spent upon security and order, and upon the pomp and public display which are often thought to be incidental to these blessings.

When, however, we turn to that other category of expenditure, which is designed to make the secure and ordered life of the community better worth living, there is something more to be said. It has been pointed out in Chapter X, §11, that grants, or subsidies, to particular industries may sometimes be beneficial to production. In more general terms, the diversion, through public, expenditure, of economic resources into particular employments will sometimes increase production. Such⁴ diversions may be brought about either by subsidies to private enterprises or by running public enterprises at a loss, which is made good out of general taxation.¹ Again, such diversions may either promote the production of particular consumable commodities and services, or may take the form of a diversion of resources from provision for the present to provision for the future, and thus to the building up of future productive power.

§7. It is in order to secure a more effective economic provision for the future that the most farreaching diversions may be justified. Apart from the intervention of public authorities, too little provision of this kind is made, and that which is made is badly composed. Too little provision is made, because there are very few people, who do not to some extent discount

¹ See Ch. XIV, §§ 5-6.

.162

the future, and especially the more distant future.¹ Most people prefer, for example, to spend floo now rather than to have f105 to spend a year hence. And they prefer floo for themselves now rather than, say, f1,000 for themselves, or, in the event of their death, for some other person, thirty years hence. Again, what provision is made is badly composed, in the sense that too large a proportion takes the form of material capital and too small a proportion takes the form of a human capital and of knowledge. For the rate of interest obtainable by an individual from a wise investment in human capital or in knowledge is generally smaller than that obtainable from an equally wise investment in material capital. But, for this very reason, the return to the community as a whole is generally greater from an increase in the former type of investment than from an increase in the latter.²

It follows that there is a large field for the intervention of public authorities to improve³ economic provision for the future and to secure a better balance between its component elements. These two objects furnish the key to nearly all public expenditure designed to increase productive power:

From the point of view of production, those forms of public expenditure are socially desirable, which will

See Ch. III, § 5.

• For a fuller discussion of these important points see Pigou, Economics of Welfare, pp. 24-7 and 773-81; Cannan, Wealth, pp. 138 and 190-201; and my own Inequality of Incomes, pp. 264-8. Compare also Marshall, Principles of Economics, p. 601.

3 I sav "improve," and not merely "increase," because it may be argued that a public authority's policy might, indeed, result in more resources being set aside for the future, but in their being less 'Hickently used than would otherwise have been the case.

increase productive power more than it would be increased, if the funds required were left in private hands. To this category belongs expenditure on (1) debt redemption, where the bulk of the money repaid will generally be reinvested¹; (2) objects such as railway development in new countries, irrigation and afforestation, which may be expected to yield large returns in the long run, but not in the immediate future, and which do not, therefore, attract the private investor; (3) the increase of knowledge, by the encouragement if research and invention, and, as regards opportunities of employment, by the maintenance of employment exchanges; (4) education and training; (5) public health; and (6) expenditure in aid of insurance against unemployment and certain other risks outside the control of the insured person.

There are, of course, limits to the amount that can be advantageously spent by public authorities on these objects, but there are strong grounds for believing that these limits lie well ahead of most actual expenditures. The general principle, which is applicable, is that in all these directions the marginal return to the community as a whole is likely to be greater than the marginal return anticipated by those individuals who are able to undertake such expenditure. Hence increased public expenditure in all these directions is desirable, with a view to bringing about that distribution of the community's resources between different employments, which will give the maximum future productivity.

 1 For further discussion of the problem of debt redemption see Ch. XXIII.

PUBLIC EXPENDITURE AND PRODUCTION 16

This principle is already to some extent admitted in this country in the case of free education paid for out of the rates and taxes, of free libraries paid for out of the rates, of public baths and wash-houses run at a loss made good out of the rates, and in many other cases. There is much to be said for the extension of the principle to cover the supply of working-class houses at uneconomic rents, and of bread, clothing and other necessaries of life below cost price, and also for the further extension of free education and free medical services, in the interests of the development of human efficiency. A subsidy to private savings is also, at first sight, defensible, with the object of stimulating saving. But not all these possible extensions are simultaneously practicable on a large scale, and it is necessary to balance their comparative effects in relation to the effects on production of raising the necessary funds.

Further, it is a matter for consideration, in each particular case, whether the object in view can be best attained by public enterprise or by a <u>subsidy to private</u> enterprise. In general, however, when account is taken of political difficulties, there is not much scope for subsidies to private industries. Moreover, it is often possible to bring about the desired results more <u>satis-</u> factorily by <u>changes in taxation than by subsidies</u> from public expenditure. It is better, for example, to exempt houses from local rates, than to subsidies them.

§8. Diversions, through public expenditure, of economic resources as between different localities will sometimes increase productive power. A distribution of grants from a central exchequer to local authorities, in such a way as to stimulate the latter in the efficient

CHAPTER XIX

THE EFFECTS OF PUBLIC EXPENDITURE ON DISTRIBUTION

§ τ . A study of the effects of public expenditure on distribution involves a discussion on parallel lines to that of Chapter XI, on the effects of taxation on distribution. The parallelism is complete so far as that part of public expenditure, which consists of grants conferring special benefit on individuals, is concerned. We may, therefore, begin with public expenditure of this sort.

Those who find Wagner's "socio-political" view of taxation hard to swallow, will find it a still harder saying that, other things being equal, that system of public expenditure is most desirable, which has the strongest tendency to reduce, within limits, the inequality of incomes. Yet this follows logically from the view that a less unequal distribution is desirable.

§ 2. As was pointed out in Chapter XVI, § 3, a particular grant, like a particular tax, may be regressive, |proportional or progressive. A grant is regressive if, the smaller the recipient's income, the smaller the proportionate addition made by the grant. It is progressive if, the smaller the recipient's income, the larger the proportionate addition. It is proportional if, whatever the size of the recipient's income, the proportionate addition is the same. Thus a universal and uniform old age pension payable to all who attain a certain age would be progressive as between the PUBLIC EXPENDITURE AND DISTRIBUTION 169

recipients, while interest on British War Loan is probably, in the whole, regressive as between the recipients. More generally, a system of grants, like a system of taxes, may be regressive, proportional or progressive either over the whole body of citizens, or over particular groups of grant recipients.

A progressive grant system undoubtedly tends to reduce the inequality of incomes. So, probably, does a proportional, or even a mildly regressive, grant system, But a more sharply regressive grant system tends to increase inequality. On the other hand, the sharper the progression, the stronger the tendency to reduction.¹ Considerations of distribution, therefore, lead us toward the most sharply progressive grant system that is practicable. The principle of minimum sacrifice in the distribution of taxation runs parallel to the principle of maximum benefit in the distribution of grants. As pointed out above, a rough approximation to the latter principle would be a grant system, which brought all incomes below a certain amount up to that amount, and added nothing to any income greater than that amount. The policy of the National Minimum embodies the first part of this idea, but the second part is not practically attainable, at any rate while large public debts remain, and considerations of production limit the height at which national minimum standards can advantageously be set. But the case for a considerable degree of progression may be taken to be firmly established.

When grants take the form, not of money payments, but of particular services or commodities, such as free

* Compare Ch. XI, § 2.

medical treatment or education, it is often difficult to assess these at their money value to the recipients. But, as was pointed out in the last chapter, such grants. will often increase the economic welfare of their recipients, and also the productive power of the community, to a much greater extent than equivalent money grants would do.

The question of subsidies, referred to in the last chapter from the point of view of production, may also be looked at from the point of view of distribution. Thus a bread subsidy operates as a progressive grant, while a subsidy on private savings would be regressive. I Given a great inequality of incomes, the case for progressive subsidies is strengthened.

§ 3. The effect of grants upon distribution may be modified by their reactions upon individual incomes. If the prospect of a grant causes a person to work or save less than he would otherwise have done; the effect of the grant in increasing his income will be diminished, and in the opposite case its effect will be increased. But this class of problem is covered by the discussion in the last chapter.

Again, distribution would be affected, and the inequality of incomes reduced, by educational expenditure on a scale sufficient to enable the younger generation to move in large numbers from the worse paid to the better paid occupations and thereby to reduce considerably the differences between the higher and the lower rates of pay,

§ 4. So far we have been considering effects upon distribution, in the sense of effects upon the inequality of incomes. Grants may improve distribution simply

PUBLIC EXPENDITURE AND DISTRIBUTION 171

by diminishing this inequality. But they may also improve it by adjusting individual incomes more closely to individual, or family, needs during different periods. The latter sort of improvement is the aim of much modern legislation, as, for example, the provision, wholly or partly out of public funds, of old age pensions, sick benefit, unemployment benefit, maternity benefit, widows' pensions and so forth. There is some parallelism here with the adjustment of taxation to the domestic circumstances of the taxpayer.

From the point of view of distribution, expenditure according to ability to receive, the correlative of taxation according to ability to pay, is achieved, when, corresponding to a given expenditure, the maximum addition is made to economic welfare.

§ 5. We may now turn from grants conferring special benefit on particular persons to grants conferring common benefit on all members of a particular class. The effects of the latter upon distribution are more difficult to trace, and the dividing line between the two sorts of grants is not clear cut. But common benefit is sometimes clearly traceable, as, for example, when grants-in-aid from the central exchequer benefit local ratepayers, when local expenditure increases the value of fixed property and thus benefits local landowners, when expenditure on roads benefits motorists, or when expenditure on a public park confers a common benefit on all who use it.

Again, the benefit of security is common to all members of the community, except a few criminals. But this benefit cannot be accurately allocated as between different people. It is, indeed, clear that, the

PUBLIC EXPENDITURE

172 (

greater a man's wealth, the greater the benefit which he derives from security of possession. But the relative advantage, which accrues to people of different degrees of wealth, from the protection of life and property and the prevention of military invasion, cannot be estimated with any approach to precision.

CHAPTER XX

SOME OTHER EFFECTS OF PUBLIC EXPENDITURE

§ 1. In concluding our study of the economic effects of public expenditure, attention may be drawn to a few additional points.

Just as the cost of collection of taxes is an important criterion of the efficiency of a tax system, so the cost of administration of policies involving public expenditure is an important criterion of the success of such policies. If the cost of administration is greater than it need be in order to obtain a given result, this is equivalent to a diminution of production, through the waste of labour and materials. Many popular accusations of waste and inefficiency made against public departments are based on ignorance and exaggeration. But there is no doubt that the cost of public administration is sometimes excessive in relation to the results obtained. This opens up large questions, which cannot be pursued here, of the organisation of public departments, both national and local, and of how far they might adopt the business methods appropriate to private firms. But it is very desirable that public departments should cultivate to the full what may be described as a marginal sense, and, with the aid of cost accounting in suitable cases, should balance the advantage of a small increase in their activities against its cost. In some cases clear thinking on these lines will point to the need for an increase, rather than a decrease, of expenditure. The policy embodied in the Factory and Trade Board Acts, for example, cannot be properly carried out without an increase in the inspectorate of the Home Office and the Ministry of Labour. And, again, according to the official evidence given before the Income Tax Commission, a comparatively small increase in the staff of the Inland Revenue Department would enable a large additional revenue to be collected.

§ 2. A special point referred to in Chapter XII, § 3 is the possibility of steadying the demand for labour and thereby diminishing unemployment. Public expenditure devoted to this purpose may both increase the economic welfare of those directly affected and may result in the more effective use of the community's productive power, a large part of which, in the shape of labour, capital and organising power, not merely lies idle, but deteriorates during periods of trade depression.

This policy may take various forms. The least ambitious of these requires only that a public authority shall keep its own demand for various kinds of labour as steady as possible, and not allow it to fluctuate in the same direction as private demand for the same kinds of labour. There is not much in this, and public authorities could easily succeed in going thus far.

Carrying the policy a stage further, a public authority,, without undertaking any special enterprises in periods of trade depression, may so arrange its ordinary expenditure, as between different years, or even as between different seasons of the same year, that the

OTHER EFFECTS OF PUELIC EXPENDITURE 175

public demand for various kinds of labour fluctuates in the opposite direction to the private demand for the same kinds of labour. This does not involve any greater public expenditure over a period of years, but only a change in the distribution of this expenditure through time. It may even involve a smaller expenditure than would otherwise have been necessary, since prices of stores and other materials and wages of labour are generally lower when trade is bad than when it is good.

Carrying the policy a stage further still, a public authority may, when trade is bad, itself undertake special enterprises, in the form of public works, or may make grants in aid of enterprises undertaken by subordinate authorities or even by private firms. The increased public demand for labour thus created. whether financed by taxation or public loans, will be partly offset by a decreased private demand for the same or other kinds of labour. For part of the funds transferred to the public authority by taxpayers and subscribers to public loans would otherwise have been spent in creating such private demand. But only part would have been spent in this way and there will be a net increase in the demand for labour, and hence a net reduction in unemployment, in so far as accumulated stocks of goods are drawn upon, which would otherwise have lain idle. Especially in the early stages of a trade depression, large stocks of this kind are available. Further, the unemployed and their dependents are in any case maintained out of the proceeds of taxes, public loans or other sources of public or private contribution. If useful public works are undertaken, and especially if these are of such a kind

176 PUBLIC EXPENDITURE

that wages form a large proportion of their cost, a given increase in expenditure, as compared with what would be required for the maintenance of the unemployed in idleness, will result in a comparatively large increase in employment and in production.

There is, therefore, considerable scope for a policy, by which public authorities will thus help to steady the demand for labour and diminish the great waste of productive power which trade depressions involve. But such a policy cannot do very much to reduce unemployment, the chief causes of which are connected with fluctuations in the value of money and in the yield of crops and with the failure of large sections of the business world to form reasonably correct estimates of future conditions or to learn from past experience of trade cycles.

§ 3. The discussion contained in this and the two preceding chapters indicates the wide range of objects which wise public expenditure may serve. We may bring this part of our enquiry to an end by emphasising once more the fundamental proposition, which in different aspects has been emphasised several times before. The central problem of public finance is no less, and no more, than the problem of securing the best disposal of the economic resources of the community, in so far as public authorities can influence their disposal.

PART IV PUBLIC DEBTS

CHAPTER XXI

THE GENERAL CHARACTERISTICS OF PUBLIC DEBTS

§ r. It has been observed in Chapter IV, that one method, by which a public authority may obtain income, is by borrowing. The proceeds of such public borrowing form part of public receipts, or public income. On the other hand, the payment of interest on, and the repayment of the principal of, the public debts thus created form part of public expenditure. The correlative of public debts is public assets. The, debts of most national governments, however, greatly exceed their assets, chiefly because most of these debts are war debts. But some public authorities, especially local authorities, most of whose debts have been incurred in the purchase of land and material capital, and still more those authorities, which have owned land and other natural resources from the beginning, have assets in excess of their debts.

A distinction is often drawn between "reproductive debt"—a rather absurd phrase—and "deadweight debt." The former is debt which is fully covered, or balanced, by the possession of assets of equal value; the latter is debt to which no existing assets correspond. Public debt, which is fully covered by public assets, is analogous to the capital of a company, and the creditors of the public authority are analogous to

PUBLIC DEBTS

debenture holders in such a company. The interest due to them is normally obtained from the incomeyielding power of the assets, or, in other words, is normally paid out of income derived by the public authority from the ownership of property or the conduct of enterprises. The interest on deadweight debt, on the other hand, must be obtained from some other source of public income, generally, that is to say, from taxation. It is significant of the usual relation of public debts to public assets in the modern world that there is no commonly recognised distinction between public assets which are subject to a mortgage of debt. and those which are free from such a mortgage. If it were a common occurrence for the assets of a public authority to exceed its debts, such a distinction would be familiar.

§ 2. Public debts, or, if we choose to look at them from the other side, public loans, may be classified in various ways. In the first place, a loan may be either voluntary or compulsory. A compulsory, or forced, loan is a rarity in modern public finance, and rightly so, for it combines the disadvantages, while lacking the corresponding advantages, of both a tax and a voluntary loan. The chief advantage of a voluntary loan, as compared with a tax, is that different individuals are free, according to their circumstances and inclinations, to subscribe as much or as little as they please. But this disadvantage is lacking in, a forced loan, which must be compulsorily subscribed by different individuals on the same basis as a tax. The chief advantage of a tax, as compared with a voluntary loan, is that it leaves behind it no trail of charges for interest and repayment

of principal to disturb subsequent Budgets. But this advantage, again, is lacking in a forced loan, though the rate of interest on the latter may be lower than on a voluntary loan.

In the second place, a loan may be either internal. or external. A loan is internal, if subscribed by persons or institutions within the area controlled by the public authority which raises the loan; it is external, if subscribed by persons or institutions outside this area. It is obvious that, though an internal loan may be either voluntary or forced, an external loan must, except under military or other coercion, be voluntary. The most important difference between an internal and an external loan is that, whereas the former only involves transfers of wealth within the borrowing community-which in this case is the same as the lending community-the latter involves, first, a transfer of wealth from the lending to the borrowing community, when the loan is made, and second, a transfer in the reverse direction, when interest is paid or principal repaid. An external loan may, of course, be gradually transformed into an internal loan through the purchase by members of the debtor community of public securities held by foreigners. Similarly, an internal loan may be gradually transformed into an external loan by sales to foreigners of public securities held by members of the debtor community.

§ 3. In the third place, a loan may or may not be.". "funded." The correlative to funded debt is sometimes taken to be "unfunded," and sometimes to be "floating," debt. In common usage, including that of official government publications, there is some

confusion of terms here, which is apt to lead to confusion of ideas. The important point is the date at which the principal of the debt must be repaid by the borrower, that is to say, by the public authority. Funded debt, as contrasted with unfunded debt. means debt, the principal of which need never be repaid, such as British Consols. Unfunded debt, consequently, means debt, the principal of which must be repaid not later than some fixed date in the future. In this sense all the British national debt, except Consols, and all the debt of British local authorities, is unfunded debt, and it is in this sense that the terms funded and unfunded debt are used in the annual British Finance Accounts. On the other, hand, funded debt, as contrasted with floating debt, means debt which need not be repaid for some: little time, whereas floating debt means debt which must be repaid within that same little time. "A little time " is, of course, a vague expression, but it is defined for this purpose, by common usage, as a period of a year. Thus the British floating debt is commonly said to consist of Treasury Bills, now all repayable after three months, though in the past some have been repayable after six and others after twelve months, and of Ways and Means Advances from the Bank of England and from various Public Departments, repayable after three months. The rest of the British national debt, including both Consols, which need never be repaid, and the miscellaneous collection of war and post-war debts, which must be repaid by dates more than a year ahead, is in this sense funded debt. It should be noticed that funded debt in this second sense. unless it is also funded debt in the first sense, will sooner

CHARACTERISTICS OF PUBLIC DEBTS 183

or later turn into floating debt, as its date of repayment approaches. Such funded debt, like a boat which seems securely beached on the shore, is sooner or later floated off on the rising tide of time. Consols, alone of British government debts, lie securely above time's high water mark.

Now the distinction between debt which need not. and debt which must, be repaid soon is much more important in practice than the distinction between debt which need never be repaid and debt which must be repaid some time. For it is the near approach of the obligation to repay large sums, which is a disturbing factor in the calculations of Finance Ministers. The process of "funding the floating debt" is designed to remove this disturbing factor by borrowing for a term of years in order to repay the floating debt which is "maturing" in the immediate future. But "funding" in this sense does not necessarily, nor usually, mean postponing repayment indefinitely. The distinction first noticed between funded and unfunded debt should. therefore, be abandoned, both because it is unimportant for practical purposes, and because it is a source of confusion of terms, as, for instance, when the British Funding Loan, designed to fund the floating debt in 1919, and repayable between 1960 and 1990, is excluded in the Finance Accounts from the category of "funded debt "

But, looking to the essence of the distinction between funded and floating debt, we see that there is no special sanctity about the period of one year, which is commonly taken to mark the dividing line between the two. The prudent Finance Minister will look more than a year

ahead and should be hardly less disturbed by the prospect of heavy maturities within the next few years than by the size of the floating debt as commonly defined.¹

 $\S 4$. It should be added that the fact that a debt is not repayable before a certain date does not, of course, prevent a public authority from purchasing its own securities on the Stock Exchange at any time at their current price, and then cancelling them. The phrase "not repayable" means not compulsorily : repayable at par, or at whatever the price fixed for repayment, when the debt was contracted. To make debts not repayable, in this sense, before a distant date, is an additional inducement to lenders, if they anticipate that the rate of interest is going to fall. For the public authority is then binding itself not to take advantage of this fall in order to convert the debt into another at a lower rate of interest. For example, if a government borrows at six per cent. at par, and if, a few years later, the rate of interest falls to five per cent., it can then borrow at five per cent, and with the proceeds of this new loan, unless it has bound itself not to do so, can compulsorily repay the old, thus saving one-sixth of its annual interest charges, while the original lenders on reinvesting their money will only be able to obtain five-sixths of their previous interest on the same class

¹A further example of confusion of terms may be cited. A pernicious proposal has recently been made that the British Government should "fund war pensions," which means that it should borrow the money required to pay these pensions instead of paying them out of the proceeds of taxation. The use of the term "fund" in this connection is quite inappropriate, though it may convey to inexpert minds a vague and comforting suggestion of financial rectitude.

of security. On the other hand, to make debts repayable at an early date is an additional inducement to lenders, if they anticipate that the rate of interest is going to rise. For they will then be protected against capital depreciation and will be able, when repaid, to reinvest their money at the higher rate and so to obtain a larger annual interest.

There are other additional inducements, which may be offered to lenders by a borrowing public authority. such as exemption from its own taxation of the income 'from its own securities, the right to tender these securities at a price above the market price in payment of taxes, the right of conversion into subsequent loans. if issued at a higher rate of interest, the right to repayment at a premium, and so on. Additional inducements of this kind are substitutes for the higher rate of interest on the loan which would otherwise have to be offered in order to induce sufficient subscriptions. And most of them are bad substitutes. In particular, so far as internal debt is concerned, the exemption of public securities, or the income from them, from all future taxation is highly undesirable, hampering the discretion of future Finance Ministers and introducing tiresome complications into the tax system. The British Government, except in one unimportant instance, did not yield to this temptation during the war. But certain other governments yielded with mechanical regularity. The British Government has been less happy in its concession, by which Victory Bonds, issued at £85 for a £100 Bond and for a long while quoted below 85 on the Stock Exchange, may be offered at their face value in payment of death duties. If, in

any given year, all death duties were paid in this way, and if the market value of the Bonds were 80, the effective yield of the death duties, or, alternatively, the effective rates of tax, would be reduced by twenty per cent., and other taxation, probably less satisfactory in its economic effects, would have to be imposed in order to make up the deficit.

§ 5. As a rule, public debts bear interest at a fixed rate. This leads to various results, which will be mentioned later. There is a strong case for making the rate of interest on new public debts vary in accordance with changes in the general rate of interest, or with changes in the general level of prices, or with these two sets of changes taken in combination.

To make the rate vary with the general rate of interest alone would make the date of repayment a matter of indifference to lenders. It would automatically secure the advantage of conversion to the public authority when the general rate of interest fell and to lenders when it rose.

To make the rate vary with the general level of prices alone would prevent an increase in the real burden of the debt as prices fell. This advantage, for reasons which will appear later, would outweigh the disadvantage of preventing a decrease in the burden of the debt as prices rose and would remove one of the apparent advantages to a public authority of depreciating its currency by the issue of large quantities of paper money. It would also, in periods of falling prices, do something to satisfy the sense of justice of wageearners, whose money wages were being reduced.

To make the rate vary with changes in the rate of interest and in the price level taken in combination would produce results, the details of which would depend on the relative magnitude of the two sets of changes.

The proposal to substitute a variable for a fixed rate of interest would probably encounter prejudice on the part of a large section of investors, who are still ignorant or distrustful of the principle of index numbers. But there is reason to believe that this section is diminishing in numbers as a result of the educative influence of recent economic history.

§ 6. It has already been remarked that, so far as most national governments, and particularly European governments, are concerned, the bulk of their public debt is deadweight debt incurred for the purposes of war. This is not a new development since 1914. The British Government for several hundred years has increased its debt by a large percentage at each successive war, by which our history is illuminated, and has never succeeded in wiping out these increases before the outbreak of the next war in the series. The British national debt of 1914 was, in part, incurred during the wars against the French more than a hundred years before. Nor was the British Government peculiar in thus preserving from generation to generation financial mementos of "old, unhappy, far off things, and battles long ago." Other governments showed a like veneration for the past, each according to its antiquity and its historic capacity to fight and to borrow. But an historical explanation is not a justification. If past generations had been wiser, the present generation

would now be happier and less heavily burdened. But reflections on the past are a digression. Here we are concerned with the present and future burden of public debts, and in the next chapter we shall study more closely the nature of this burden.

CHAPTER XXII

THE BURDEN OF PUBLIC DEBTS

§ I. The nature of the burden of a deadweight public debt is often misunderstood. The direct burden upon a community of an external debt is, indeed, a simple matter. During any given period the direct money burdenkis measured by the sum of money payments, in interest and repayment of principal, to external creditors, while the direct real burden is measured by the loss of economic welfare, which these money payments involve, to members of the debtor community. If the direct money burden is given, the direct real burden will vary according to the proportions in which various members of the community contribute to the required money payments. If the latter are made mainly by the rich, the direct real burden will be smaller than if they are made mainly by the poor. Putting it another way, the money payments are used by the external creditors to obtain goods and services, which would otherwise have been at the disposal of members of the debtor community. The latter are, therefore, deprived of goods and services to this amount, and the amount of direct real burden will depend on the way in which this deprivation is distributed.

The indirect burden¹ of an external debt arises from the check to the productive power of the community due, first, to the taxation required to meet the debt charges, and, second, to the probable check to public expenditure which would promote production. It is similar in character to the indirect burden of an internal debt and can best be discussed under that heading. The paradoxical idea is sometimes put forward, especially in connection with war indemnities, which are only a special case of external debt, that the obligation to make external money payments stimulates the productive power of the debtor community and increases the steadiness of employment within it. If this were so, an external debt would give rise to no indirect burden, but to an indirect benefit, which might even outweigh the direct burden. But this idea is mistaken. The need to make external money payments on a large scale may, indeed, stimulate production, and hence employment, in trades working for export. This stimulus will be increased if, and so long as, the external value of the community's money is falling faster than its internal value.² But this is not a net stimulus to production and employment in the debtor community. It is only a stimulus to one set of trades at the expense of another, resulting in a diversion of resources, which will generally be harmful.

§ 2. The character of an internal debt is quite different. Here we are dealing, not with a debtor ^f It is not necessary to distinguish here between the indirect money burden and the indirect real burden of debt.

* This expansion of exports is also liable to check production and cause unemployment in the corresponding branches of industry in the creditor community and, indeed, in other communities as well. But that is another story.

BURDEN OF PUBLIC DEBTS

community in relation to a body of external creditors, but with debtors and creditors within the same community. Thus all transactions connected with an internal debt resolve themselves into a series of transfers of wealth within the community. It follows that there can never be any direct money burden, or direct money benefit, of an internal debt. For all the money payments cancel out. A, as a taxpayer, makes certain payments, for interest on the debt or repayment of principal, and these payments, minus a small proportion to cover the expenses of management of the debt, are received by B, who is a public creditor by reason of his holding of war loan or other public securities. Very often A and B are the same person.

The debt will involve a direct real burden or a direct real benefit to the community, according as this series of transfers from taxpayers to public creditors increases or decreases the inequality of incomes. The question, therefore, depends upon the distribution of taxation on the one hand, and of public securities on the other, among different members of the community. Roughly speaking, there will be a direct real burden, if the proportion of taxation¹ paid by the rich is smaller than the proportion of public securities held by the rich. There will be a direct real benefit if it is larger. If the British debt consisted exclusively of Savings Certificates held by wage earners, and if British taxation consisted

¹ It is impossible, in an ordinary budget, to separate the taxes which go to pay debt charges from the taxes which go to pay for armaments or education. But we can calculate the proportion of the debt charges to the total expenditure, and can then legitimately assume that this same proportion of the taxes paid by any individual goes to pay debt charges.

exclusively of income tax and death duties on the wealthy, the British debt transactions would involve a large direct real benefit to the community. But the actual facts are very different from this, both in this country and elsewhere. Owing to the large inequality of incomes, which is a feature of nearly all modern communities, public securities are held mainly by the wealthier classes. On the other hand, taxation, even if progressive, is seldom likely to be so sharply progressive as to counterbalance, among the wealthier classes, the income derived from public securities.^I In the vast majority of actual cases, therefore, and probably in all, an internal debt involves a direct real burden.

§ 3. Again, as a general rule, an internal debt involves an additional and indirect burden on a community and, as already observed, an external debt does the same. One reason for this is that the taxation required for the service of the debt tends to check production, in so far as it reduces taxpayers' ability and desire to work and save.³ Another reason is that short-sighted "economies" in desirable social expenditure, which also tend to check production,³ are particularly likely to be made when heavy taxation is required to meet debt charges.

¹ More precisely, the progressiveness of the tax system is not likely to be greater than the regressiveness of the grants paid, in the form of interest, to the holder, of public securities.

* See Ch. X.

³ Compare Chs. XVIII-XIX, where it is incidentally pointed out that certain sorts of social expenditure, education being the leading example, tend not only to increase production, but also to reduce the inequality of incomes. To reduce such expenditure is, therefore, to impose a two-fold burden on the community, first, in reduced production and, second, in increased inequality.

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So far as the evil effects of taxation are concerned, it might be supposed at first sight that these would be balanced, in the case of internal debt at any rate, by the good effects of expenditure to meet the debt charges. But this is not so.

In the case of an external debt, any effect of taxes in checking taxpayers' ability to work and save is clearly irremediable, so far as the debtor community is concerned. For it is the external creditors, and not members of the debtor community, whose ability to work and save will be increased through the receipt of the debt payments. In the case of an internal debt, the position in this respect is distinctly better. For, against the reduction of taxpavers' ability to work and save must be set the increased ability of internal creditors. But even here there is likely to be a net loss to the community. For, where the debt involves a direct real burden-as in practice it is almost certain to do---it is probable that taxation will reduce personal efficiency more than the receipt of debt charges will increase it. There would thus be a net loss in ability to work, while ability to save would be unaffected by the transfer of income.

When we turn from effects upon ability, to effects upon desire, to work and save, the position is still more unsatisfactory. It has been argued in Chapter X that it is the taxpayer's elasticity of demand for income which determines whether taxation will, or will not, check his desire to work and save, but that, on the whole, it is often likely to do so. Any loss to production through this cause is, again, clearly irremediable in the rase of an external debt. In the case, of an internal

debt, what we have to consider is the effect, upon the desire of internal creditors to work and save, of the prospect of receiving year by year an addition to their incomes, irrespective of any work or saving which they may perform. Whatever their elasticity of demand for income, this prospect will not increase their desire to work and save. On the contrary, it will almost certainly reduce it and thereby cause a further loss to production and a further increase in the indirect burden of the debt.

There is only one argument on the other side, and it applies only to internal debt. If internal creditors, as a class, have a stronger desire to save than taxpayers, as a class,^{τ} it is possible that a transfer of wealth from the latter to the former may increase the effective desire to save of the community as a whole. This possibility counts for something, but not for enough to outweigh the practical certainties on the other side.

§ 4. Nor have we yet come to the end of the story. Nearly all deadweight public debts originate in time of war and it is a peculiarity of such times that both the general level of prices and the rate of interest are unusually high, the former owing to reduced production combined with floods of paper money, the latter owing to shortage of real capital combined with a large and inelastic government demand for loans. A public debt, thus originating as a war loan, is almost certain, for the reasons already discussed, to involve both a direct real burden and an indirect burden upon the

¹ Each internal creditor counting, in his class, in proportion to his recgipts and each taxpayer in proportion to his payments.

warring community. Other things being equal, the larger the debt, the heavier the burdon Now, if the debt lingers on, unpaid or unrepudiated, into the succeeding period of peace, and if, as is likely to happen when economic conditions become gradually less abnormal, both the price level and the rate of interest begin to fall from their war-time heights, the burden of the debt does not remain constant. On the contrary, it automatically increases. As prices fall, the amount of real wealth, which corresponds to a given money payment, increases and, therefore, the transfer of real wealth, by way of interest, from taxpayers to public creditors increases and, therefore, both the direct real burden and the indirect burden of the debt increase. And again, as the rate of interest falls, the market value of existing public securities rises and, therefore, the money cost of repayment of a given amount of principal increases and, therefore, the transfer of real wealth, by way of such repayment, from taxpayers to public creditors, increases and here again, therefore, the burden of the debt, in both its forms, increases. And when the price level and the rate of interest fall together, these forces making for an increase in the burden of the debt aggravate each other.

§ 5. The argument of the preceding section points to the conclusion that deadweight public debts should not be lightly created. "The evil that men do lives after them" is a motto specially apposite to those statesmen who, following tradition and the path of least resistance, rely upon internal loans and currency inflation, rather than upon straightforward taxation, as the chief means of financing war. Their only excuse

can be that in a community, which is ignorant of economic truths or unduly dominated by narrow sectional interests, the war spirit thrives best and "civilian morale" is best maintained on short-sighted and unsound finance. And even this excuse is not always a good one.

But for the carrying out of schemes of economic development in time of peace, finance by internal loans stands on a more legitimate footing. For public debts, which are the means of creating public assets yielding an income sufficient to cover the debt charges, throw no burden upon the community. But even in such cases it would often be better to rely more on taxes and less on loans, so that, as the schemes matured, there should result, not merely no burden, but a positive benefit due, in effect, to compulsory and collective saving.¹ Where, however, the total new expenditure on such schemes is large and very variable from year to year, the inconvenience of correspondingly large annual variations in taxation justifies the use, in moderation, of internal loans, provided these are repaid within a reasonable time.

The justification of external loans rests on different grounds. In time of peace external debts may legitimately be contracted by governments controlling large, undeveloped natural resources, the rapid development of which is too big a task for their own subjects

¹ New capital expenditure by public authorities is at present financed by taxation to a larger extent than is commonly realised and this method of securing compulsory collective saving is likely to be of increasing importance in the future. In so far as this is so, the objection to heavy taxation that it tends to check voluntary individual saving less much of its force.

BURDEN OF PUBLIC DEBTS

197

to perform unaided. This is the justification of the external debts of the British Dominions and of such countries as the Argentine Republic. For taxation, which is generally preferable to an internal loan, is not a practicable alternative to an external loan. In time of war, again, an external loan is often the only practicable means of financing imports on the scale required. It is sometimes also the most practicable, if not the only, means of re-establishing on a tolerable basis systems of currency and public finance, which war and revolution have shattered. The present condition of a number of European countries illustrates this last situation.

CHAPTER XXIII

THE REPAYMENT OF PUBLIC DEBTS

\$ 1. An obvious way of escape from the burden of public debts is to repay them. Another, which may seem even more obvious, is to repudiate them. It is worth while to begin by considering this second possibility. If contracts between a public authority, and its creditors are repudiated, while other contracts remain in force, a particular group of property owners is penalised, while all other groups are unaffected, and may even gain through subsequent reduction of taxation. There is a clear argument from equity against such a discrimination. If, on the other hand, all contracts involving payments to property owners are repudiated simultaneously, no discrimination against a particular group is involved and the previous argument from equity loses its force. But we are now contemplating a social revolution, the results of which would be widely held to be inequitable to property owners as a class.

Turning from considerations of equity to probable economic consequences, it is obvious that a public authority, which repudiates its debts, whether as a mere incident in a social revolution or as an isolated act of policy, will have difficulty in floating any further

loans. This is a strong argument against repudiation, except where the debt to be repudiated is larger than the loan likely to be required in the future.

There is, however, a further argument against repudiation. Particularly in the case of an external debt, there will be a danger of provoking aggressive action against the repudiating public authority on the part of the aggrieved creditors. The possible methods of aggression are many, overt military action, underhand support of enemies of the public authority, trade boycotts, campaigns of "propaganda," and so forth. All these methods have been employed by the creditors of the Russian Government since 1917, and have inflicted great economic injury upon the Russian people. There is, therefore, on economic grounds alone, a strong case against repudiation.

The same arguments apply, though with proportionately diminished force, to such a partial repudiation as the reduction, by a mere decree of the public authority, of the rate of interest on its existing debts. On the other hand, the reduction of the burden of the debt (assumed to be fixed in terms of money), by the deliberate depreciation of the value of this money · through the use of the printing press, or, in other words, by currency inflation, though sometimes regarded as partial repudiation, stands on a rather different footing. It does, indeed, discriminate against external creditors, as compared with their fellows who have made more fortunate investments. But it discriminates against internal creditors, not alone but in company with all other recipients of a fixed money income and, to some extent, in company with wage-earners, whose money

wages tend to rise more slowly than the price level. The true objection to currency inflation, however, is, to not that it involves repudiation of debts, for this is largely a matter of verbal definition, but that it is an unsound policy on more general grounds.¹

§ 2. Except as a mere incident in a social revolution, which is not a common event, an effective demand for the repudiation, in whole or in part, of an internal debt is not likely to arise, unless it is widely felt by those who are not public creditors, nor to any large extent property owners, that the burden of the debt is unreasonably great, involving them in heavy taxation and preventing public expenditure, which they desire. The only real safeguard against the growth of such a demand is to pay off the debt.

A movement for the repudiation of an external debt may arise more easily. It may arise in a country which, having been largely developed in the past with the aid of external capital, has arrived at a stage of imagined independence of external assistance. Even more easily may it arise in a country, whose external debt is a legacy of war, whether its creditors be ex-allies or victorious ex-enemies. A consciousness of sufficient military or economic strength, as compared with its creditors, may then embolden a debtor government to lay a sharp knife to the legal bonds, which impose upon its ' subjects a continuing tribute to foreigners. The existence, even on paper, of large "inter-Allied and Associated " government debts and, still more, of large reparation debts, is therefore a source of danger

See Ch. XV.

both to the world's financial stability and to its peace.¹ It may be added that practically all these debts, in so far as they are ever transformed from financiers' dreams into real transactions, will involve transfers of wealth from poorer to richer communities. Their payment would, therefore, tend to diminish the economic welfare of the world as a whole.

§ 3. We may now turn from repudiation, a topic the mere discussion of which may seem disturbing, to the more comfortable theme of the repayment of public debts. But even here there is not much immediate comfort for taxpayers, who are confronted with various disagreeable alternatives.

The chief decision, which has to be taken, is how fast repayment shall proceed. For the purpose of this decision, an external debt is analogous to the debt of a private person, but an internal debt is not. The rate, that is to say, at which an external debt should be paid off, depends upon the wealth of the debtor community in relation to the amount of the debt. The greater the wealth, and the smaller the debt, the faster should the debt be paid off, and conversely. The rate at which an internal debt should be paid off, turns upon different considerations, for in this case repayment involves, not a subtraction from the wealth of the community for the benefit of outsiders, but only a transfer of wealth

⁸ So far as financial stability is concerned, the current morality of the business world attaches more sanctity to debts due to private investors than to debts due to governments. It is, therefore, an object of policy with creditor governments to transform, by the issue and sale of bonds, other governments' debts to themselves into debts to their own private citizens. A transaction of this kind would also, of course, help an embarrassed creditor government to balance its budget for the time being.

within the community. Here there is a strong argument for rapid repayment, whatever the wealth of the community and whatever the size of the debt. Indeed, in contrast with the case of an external debt, the argumentfor rapid repayment is stronger, the greater the burden of the debt, which means, in general, the greater its size. The analogy for the taxpayer is the choice between having an aching tooth out quickly or letting it continue to ache.

If the debt is only repaid slowly, with the aid of a comparatively small sinking fund, the burden of interest payments will only decrease slowly and there will be, in addition, a long continuing burden due to the sinking fund payments. There is likely, therefore, to be a long sustained check to productivity and to beneficial public expenditure. If, on the other hand, the debt, or at any rate a large fraction of it, is repaid rapidly, by means of special but short-lived taxation, the burden of interest payments will diminish rapidly, while the additional burden of taxation for repayment will be heavy while it lasts, but will not last long. The check to productivity and to beneficial public expenditure will, therefore, be greatly lessened in a comparatively short time. For the effect upon the budget of large reductions in the debt charges will be to make possible considerable reductions in taxation simultaneously with considerable increases in desirable forms of public expenditure.

On the other side, as against the policy of rapid repayment, it may be argued that the heavy taxation required, even if short lived, would cause panic in the business world, would ruin many businesses and would

be administratively unworkable. Now if it were evident, on a calm view of the policy proposed, both in its principles and details, that its advantages to the business world outweighed its disadvantages, there would obviously be no ground for reasonable panic. Against unreasonable panic, stimulated by misunderstanding and even by deliberate misrepresentation, there can be no guarantee, and no defence except in argument and education. It is not difficult, however, to remove - all causes of reasonable panic.

§ 4. The distribution of the burden of a special debt-redemption levy, or " capital levy " as it is often called, should accord, as closely as the requirements of administrative convenience and simplicity permit, with individual "ability to pay." Above a certain level of exemption, individuals should be taxed on a progressive scale upon an assessment based upon their net wealth, and, in spite of the difficulty of a capital valuation, there is little doubt that wealth should be interpreted, for this purpose, to mean capital rather than income. Such a debt-redemption levy has been aptly described as anticipated death duties. For just as during the war a law was passed, by which every man of suitable age and physique was deemed to be a soldier, so now, in order to dissipate one of the evil legacies of war finance, a law would be passed, by which every man (and woman) of a suitable degree of wealth would be deemed to die, and to come to life again next morning as the fortunate heir to his own property on payment of an appropriate ransom.

In order to secure a rapid reduction of the debt, the contributors to such a levy should be encouraged to pay

201

as soon as possible, and should, as a rule, be required to pay in full within a reasonably short time, say within three years. For the sake of simplicity, payment in British government securities should be permitted, and also, for the convenience of the contributors, payment in any other securities, which are easily realisable.⁴ To encourage payment within a shorter period, a discount of, say, ten per cent. might be allowed on all payments, or at any rate on all payments in full, within one year from the passing of the Act enforcing the levy.

The normal period of payment should be extended. after due enquiry, in all cases where insistence upon payment within the normal period would be likely to ruin, or even seriously to injure, the businesses of individual contributors. But there is no reason to suppose that such cases would form more than a small proportion of the total number. Here payment by instalments spread over a longer period, the length of which would vary with the circumstances of each case, should be substituted, with interest on the sum outstanding at the end of the normal period. Since the amount of the future instalments would depend upon the wealth of the contributor at the time of assessment, and not upon his future activities, these activities would not be liable to be checked by the expectation of having to pay the instalments, but might, on the contrary, be stimulated by the prospect of a reduction in other forms of taxation.

¹ Individual shareholders in a joint stock company might thus part with some of their shares in payment of the levy and these shares would be subsequently sold, as opportunity offered, by the national debt commissioners. But the company itself would not be liable to the levy and its operations would not, therefore, be directly affected.

§ 5. There are many other ways, in which it would be possible to ease the wheels of assessment and collection of the levy. But further discussion of detail would be out of place in a book which is primarily concerned with general principles. It may, however, be added that the policy of a substantial debt-redemption levy, together with the subsequent reduction of taxation and increase of beneficial expenditure which it would render possible, would involve, not only the abolition of burdens and the conferring of a net benefit upon the community, but also to a considerable extent the shifting of a burden from the shoulders of the young, the enterprising and the oncoming, upon whom taxation and the lack of educational and other opportunities now press heavily, to the shoulders of the old, the comfortable and the established in whose ranks most of the largest contributors to the levy would be found. And this, if the adoption of the policy is not delayed until the generation of fighters in the "great war" grows old, will be an act of rough justice as between the generations. For it will represent at least a part payment of a moral debt by those, whom the good fortune of age kept safe at home, to those who experienced, over and above the loss of economic opportunities during a critical period of their lives, the perils and the torments of the battlefields.

§ 6. The delay, which the adoption of this policy has already encountered, recalls the parable of the Sibylline Books. The greater part of the debt need never have come into being at all, if we had taxed more courageously during the years of war. At the armistice the time was ripe for a big effort to reduce the

debt, and, if a levy on general wealth was then too big a project for timid minds to entertain, a levy on "war wealth" would have been worth achieving. But that opportunity was allowed to slip and, as time passed, the reality of the distinction between war wealth and other wealth quickly faded. Since then, the coming of the trade depression has intensified timidity, while the fall of prices and of the rate of interest have already greatly increased the burden of the debt. But, sooner or later, we shall be driven back to the policy of a special debt-redemption levy, as the only way out of an otherwise intolerable financial situation. The longer we delay, the greater the cost. Nor will any section of the community gain, in the long run, by turning away its face from unpleasant realities and screaming with horror at proposals, which it has not even tried to understand.*

³ Fuller discussion and better understanding of the detailed application of such a levy should do much to dissipate the vague apprehension, with which it is still regarded in many influential circles. But it is probably too much to hope that its imposition would not produce some temporary check to business confidence. It would, therefore, be well to time its imposition so as to make it coincide with an incipient trade boom and thus to exercise a wholesome break upon the ill-founded optimism, which is apt to prevail during such periods. For one of the surest ways of curbing trade slumps is to curb the trade booms, which precede them. I deal with the whole subject, in more detail than is possible here, in my *Capital Levy Explained*, published by the Labour Publishing Company.

It is a peculiarity of English economists that, unlike their American, French, Italian and German brethren, they seldom write general treatises on public finance.³ Professor Bastable's Public Finance, the only large systematic book on the subject published in England in modern times, is already out of date in many respects, as a result of recent developments both in theory and practice. On the other hand, much has been written lately by English economists on the subject of taxation and a good deal on the subject of public debts. But, as I have pointed out above, the theory of public expenditure has been greatly neglected. On taxation and public debts the student may be referred to Professor Pigou's Economics of Welfare, Part IV, and to his small book on A Capital Levy and a Levy on War Wealth. Valuable fragments of a theory of public expenditure will also be found in Economics of Welfare, Part V., Chapters VII-XI and Part VI, Chapters XII-XIII, and in Sidgwick's Principles of Political Economy, Book III. Sir Josiah Stamp's writings, The Fundamental Principles of Taxation. Wealth and Taxable Capacity and British Incomes and Property, as well as a number of articles in the Economic Journal, the Journal of the Statistical Society and elsewhere, are well worth reading owing to the author's varied qualifications as economist, statistician, public administrator, and business man. A good general introduction to the subject will be found in Mrs. Robinson's Public Finance. Other books dealing with special aspects of public finance are Marshall's Money, Credit and Commerce, Book III, Chapters VII-XI, with special reference to the incidence of import and export duties, Professor Cannan's History of Local Rates in Relation to the Proper Distribution of the Burden of Taxation, my own Inequality of Incomes, Part IV. Chapters VII-XI, with special reference to inheritance taxes, Mr. Sidney Webb's Grants in Aid, Dr. Grice's National and Local Finance, Mr. Pethick Lawrence's Capital

¹ For a further discussion of this fact and of some of the recent literature on the subject, see my article on Some Recent Contributions to the Study of Public Finance (Economica, May, 1921). Levy, my own Capital Levy Explained, Mr. J. A. Hobson's Taxation in the New State, Mr. Chorlton's Rating of Land Values, and, more on the administrative side, Mr. Higgs' Financial System of the United Kingdom, Mr. Hilton Young's System of National Finance, and Mr. R. G. Hawtrey's Exchaquer and Control of Expenditure. On the historical side Buxton's Finance and Politics, Mallet's British Budgels, Rees' Short Fiscal and Financial History of England and Fisk's English Public Finance may be consulted.

Turning from books to government publications, the student will derive profit, and perhaps also some amusement, from comparing the answers to an official examination paper set to various civil servants, professors and other, eminent persons in 1890, published in the blue book on the *Classification and Incidence of Imperial and Local Taxes*. These examinees were fortunate in being allowed ample time for their answers and unlimited access to books and . papers! Reference should also be made to the Reports of, and Evidence before, the Select Committee on the Income Tax (1906) and the Royal Commission on the Income Tax (1920). The annual Finance Accounts and the annual Reports of the Commissioners of Inland Revenue and of the Commissioners of Customs and Excise contain statistical details.

American general treatises include Adams' Science of Finance and Professor Plehn's Introduction to Public Finance. On taxation Professor Seligman's writings, especially Essays in Taxation, Progressive Taxation and The Income Tax should be read, and also the chapters on taxation in Professor Taussig's Principles of Economics. The leading modern French authority on public finance is Professor Jéze, whose various writings, and especially his Science des Finances, should be consulted. Good Italian books are Professor Einaudi's Corso di Scienza della Finanza. Professor Graziani's Istituzioni di Scienza delle Finanze and Signor Nitti's Scienza delle Finanze. Professor Rignano's Socialismo in Accordo colla Dottrina Economica Liberale and Una Riforma Socialista del Diritto Successorio contain his proposals for the taxation of inherited wealth. A good book in German, by a Magyar author, is Professor Béla Foldes' Finanzwissenschaft.

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