An Economic Theory of Democracy

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Introduction

THROUGHOUT the world, governments dominate the economic scene. Their spending determines whether full employment prevails; their taxes influence countless decisions; their policies control international trade; and their domestic regulations extend into almost every economic act.

Yet the role of government in the world of economic theory is not at all commensurate with this dominance. True, in each separate field of economics, recent thought has fruitfully concentrated upon the impact of government on private decision-making, or the share of government in economic aggregates. But little progress has been made toward a generalized yet realistic behavior rule for a rational government similar to the rules traditionally used for rational consumers and producers. As a result, government has not been successfully integrated with private decision-makers in a general equilibrium theory.

This thesis is an attempt to provide such a behavior rule for democratic government and to trace its implications. In pursuing these ends, we do not pretend to solve all the problems which have been frustrating analysis in this field. However, we hope to start toward a solution of some and to formulate a reasonable evasion of others which are intrinsically insoluble.

I. THE MEANING OF RATIONALITY IN THE MODEL

A. THE CONCEPT OF RATIONALITY IN ECONOMIC THEORY

Economic theorists have nearly always looked at decisions as though they were made by rational minds. Some such simplification is necessary for the prediction of behavior, because decisions made at random, or without any relation to each other, do not fall into any pattern. Yet only if human actions form some pattern can they ever be forecast or the relations between them subject to analysis. Therefore economists must assume an ordering of behavior takes place.

There is no a priori reason to suppose that this ordering is rational, i.e., reasonably directed toward the achievement of conscious goals. Nevertheless, economic theory has been erected upon the supposition that conscious rationality prevails, in spite of acid assertions to the contrary by men like Thorstein Veblen and John Maurice Clark. Since our model is ex definitione one concerning rational behavior, we also make this assumption.¹

As a result, the traditional methods of prediction and analysis are applicable in our model. If a theorist knows the ends of some decision-maker, he can predict what actions will be taken to achieve them as follows: (1) he calculates the most reasonable way for the decision-maker to reach his goals, and (2) he assumes this way will actually be chosen because the decision-maker is rational.

Economic analysis thus consists of two major steps: discovery of the ends a decision-maker is pursuing, and analysis of which means of attaining them are most reasonable, i.e., require the least input of scarce resources. In carrying out the first step, theorists have generally tried to reduce the ends of each economic agent to a single goal, so that one most efficient way to attain it can be found. If

¹ See footnote 3, p. 5. Our definition of rationality includes the assumption that men pursue their own interests directly without disguising them, except in one specific instance discussed in Chapter 3. For an analysis of when rational men conceal their preferences, see Kenneth J. Arrow, Social Choice and Individual Values (New York: John Wiley & Sons, Inc., 1951), p. 7. Like Arrow, we exclude the "pleasures of the game" aspects of choice-making from our study except for a few specific comments.

multiple goals are allowed, means appropriate to one may block attainment of another; hence no unique course can be charted for a rational decision-maker to follow. To avoid this impasse, theorists posit that firms maximize profits and consumers maximize utility. Any other goals which either possess are considered deviations that qualify the rational course toward the main goal.

In such analysis, the term rational is never applied to an agent's ends, but only to his means.2 This follows from the definition of rational as efficient, i.e., maximizing output for a given input, or minimizing input for a given output. Thus, whenever economists refer to a "rational man" they are not designating a man whose thought processes consist exclusively of logical propositions, or a man without prejudices, or a man whose emotions are inoperative. In normal usage all of these could be considered rational men. But the economic definition refers solely to a man who moves toward his goals in a way which, to the best of his knowledge, uses the least possible input of scarce resources per unit of valued output.

To clarify this definition, let us consider an example of behavior which is rational only in the economic sense. Assume that a monk has consciously selected as his goal the achievement of a state of mystical contemplation of God.3 In order to attain his goal, he must purge his mind of all logical thoughts and conscious goal-seeking. Economically speaking, this purging is quite rational, even though it would be considered irrational, or at least nonrational, by any of the noneconomic definitions of rationality.

(London: Longmans, Green and Co., 1952), p. 121 n.

³ Consciously selected goals need not be (1) continuously held in awareness while they are being pursued or (2) purely a matter of free choice. The first point is proved by the example given. The second can be shown by the fact that men consciously seek to obtain food, though their underlying desire to eat is intrinsic to their natures. Thus conscious selection may at times be limited to specifically

carrying out basically unconscious drives.

² We are assuming throughout this study that ends can be separated from means in the mind of the decision-maker. Although it can be argued that goals will be modified by the processes used to attain them, some separation of ends from means must be allowed or all behavior becomes disorganized and pointless. Consequently, we assume that every decision-maker evaluates the alternatives facing him by their relation to his ends, even if these ends are temporary or are themselves means toward some ultimate end. For a discussion of this prob-lem, see William J. Baumol, Welfare Economics and the Theory of the State

Economic rationality can also be formally defined in another manner. A rational man is one who behaves as follows: (1) he can always make a decision when confronted with a range of alternatives; (2) he ranks all the alternatives facing him in order of his preference in such a way that each is either preferred to, indifferent to, or inferior to each other; (3) his preference ranking is transitive; (4) he always chooses from among the possible alternatives that which ranks highest in his preference ordering; and (5) he always makes the same decision each time he is confronted with the same alternatives. All rational decision-makers in our model—including political parties, interest groups, and governments—exhibit the same qualities.

Rationality thus defined refers to processes of action, not to their ends or even to their success at reaching desired ends. It is notorious that rational planning sometimes produces results greatly inferior to those obtained by sheer luck. In the long run, we naturally expect a rational man to outperform an irrational man, ceteris paribus, because random factors cancel and efficiency triumphs over inefficiency. Nevertheless, since behavior in our model cannot be tested by its results, we apply the terms rational or irrational only to processes of action, i.e., to means. Of course, some intermediate ends are themselves means to ultimate goals. The rationality of the former we can judge, but evaluation of the latter is beyond our scope.

B. THE NARROW CONCEPT OF RATIONALITY IN THE PRESENT STUDY

However, even though we cannot decide whether a decision-maker's ends are rational, we must know what they are before we can decide what behavior is rational for him. Furthermore, in designating these ends, we must avoid the tautological conclusion that every man's behavior is always rational because (1) it is aimed at some end and (2) its returns must have outweighed its costs in his eyes or he would not have undertaken it.

To escape this pitfall, we focus our attention only upon the economic and political goals of each individual or group in the model.

⁴ These conditions are drawn from the analysis in Chapters 1 and 2 of Arrow, op. cit.

Admittedly, separation of these goals from the many others which men pursue is quite arbitrary. For example, a corporation executive may work for a higher income because he enjoys working as well as to gain more purchasing power; hence, viewing the latter as his only real motive is erroneous as well as arbitrary. Nevertheless, this is a study of economic and political rationality, not of psychology. Therefore, even though psychological considerations have a legitimate and significant place in both economics and political science, we by-pass them entirely except for a brief mention in Chapter 2.

Our approach to elections illustrates how this narrow definition of rationality works. The political function of elections in a democracy, we assume, is to select a government. Therefore rational behavior in connection with elections is behavior oriented toward this end and no other. Let us assume a certain man prefers party A for political reasons, but his wife has a tantrum whenever he fails to vote for party B. It is perfectly rational personally for this man to vote for party B if preventing his wife's tantrums is more important to him than having A win instead of B. Nevertheless, in our model such behavior is considered irrational because it employs a political device for a nonpolitical purpose.

Thus we do not take into consideration the whole personality of each individual when we discuss what behavior is rational for him. We do not allow for the rich diversity of ends served by each of his acts, the complexity of his motives, the way in which every part of his life is intimately related to his emotional needs. Rather we borrow from traditional economic theory the idea of the rational consumer. Corresponding to the infamous homo economicus which Veblen and others have excoriated, our homo politicus is the "average man" in the electorate, the "rational citizen" of our model democracy.

Because we allow this political man to be uncertain about the future, he will not appear to be as much of a calculating-machine-brained character as was the utilitarians' economic man. Nevertheless, he remains an abstraction from the real fullness of the human personality. We assume that he approaches every situation with one eye on the gains to be had, the other eye on costs, a delicate ability

to balance them, and a strong desire to follow wherever rationality leads him.

Undoubtedly, the fact that our model world is inhabited by such artificial men limits the comparability of behavior in it to behavior in the real world. In the latter, some men do cast votes to please their wives—and vice versa—rather than to express their political preferences. And such behavior is often highly rational in terms of the domestic situations in which it occurs. Empirical studies are almost unanimous in their conclusion that adjustment in primary groups is far more crucial to nearly every individual than more remote considerations of economic or political welfare.⁵

Nevertheless, we must assume men orient their behavior chiefly toward the latter in our world; otherwise all analysis of either economics or politics turns into a mere adjunct of primary-group sociology. However, nearly all primary groups are strongly influenced by general economic and political conditions; hence we may provisionally regard the peculiarities of each such group as counterbalanced by opposite peculiarities of other primary groups. Therefore when we define rationality in terms of general conditions alone, we are not distorting reality as greatly as it might at first appear.

The exact nature of the economic and political ends from which we derive our descriptions of rational behavior will be revealed in the specific structure of our model. But before we consider that structure, we must clarify one more aspect of what we mean by rationality: how can we distinguish between the mistakes of rational men and the normal behavior of irrational ones? If rationality really means efficiency, are inefficient men always irrational, or can rational men also act inefficiently?

C. IRRATIONALITY AND THE BASIC FUNCTION OF POLITICAL RATIONALITY

To distinguish clearly between rational errors and irrational behavior is not an easy task. Our first inclination is to declare that a mistaken rational man at least intends to strike an accurate balance

⁵ For a summary of such studies, see Elihu Katz and Paul F. Lazarsfeld, Personal Influence (Glencoe, Illinois: The Free Press, 1955), part one.

between costs and returns; whereas an irrational man deliberately fails to do so. But numerous cases of unconscious neurosis belie this criterion. Even hopeless psychotics often behave with perfect rationality, given their warped perception of reality. Therefore, intention is an inadequate distinction.

For our limited purposes in this model, correctability is a much better means of telling errors from irrational behavior. A rational man who is systematically making some mistake will cease to do so if (1) he discovers what the mistake is and (2) the cost of eliminating it is smaller than the benefits therefrom. Under the same conditions, an irrational man will fail to rectify his errors because he has some nonlogical propensity to repeat them. His actions are not primarily motivated by a desire to attain his overt ends efficiently; hence he fails to do so even when he can.

There are two objections to this method of distinguishing error from irrationality. The first is that it often requires hypothetical testing, since erroneous rational men do not always discover their mistakes. If a man continues to make mistakes, how can we tell whether he is irrational or merely lacks information? In such cases, are we not driven back to judging his intentions, which we have just shown to be useless indicators?

This objection strikes at a basic difficulty in the social sciences by attacking the inability of these sciences to prove all their assertions experimentally. Undoubtedly it weakens our argument. However, if we yield to it completely, we must refrain from making any statements whatever about many vital issues in all the social sciences. To avoid such paralysis we hypothesize whenever it is absolutely necessary, recognizing the limitations of doing so.

The second objection is similar to a point we have already discussed. It states that behavior which is irrational according to our definition is highly rational in the psychic economy of the individual's personality. Neurotic behavior is often a necessary means of relieving tensions which spring from conflicts buried deep within the unconscious.⁶ But we are studying rational political behavior,

⁶ See Karen Horney, The Neurotic Personality of Our Time (New York: W. W. Norton & Company, Inc., 1937), passim.



not psychology or the psychology of political behavior. Therefore if a man exhibits political behavior which does not help him attain his political goals efficiently, we feel justified in labeling him politically irrational, no matter how necessary to his psychic adjustments this behavior may be.

The reason we are trying to distinguish so carefully between rational errors and irrational acts is that we wish simultaneously (1) to point out how the cost of information can lead rational men to make systematic errors in politics and (2) to avoid any discussion of political irrationality. Our desire to by-pass political irrationality springs from (1) the complexity of the subject, (2) its incompatibility with our model of purely rational behavior, and (3) the fact that it is an empirical phenomenon which cannot be dealt with by deductive logic alone but also requires actual investigation beyond the scope of this study.

There is only one point at which irrationality needs to be discussed in connection with our model. If a significant section of any body politic becomes irrational in its behavior, a difficult problem is posed for the man who does not. How should he act? What is the best course for a rational man in an irrational world?

The answer depends upon whether the irrationality he faces involves predictable patterns of behavior. If so, rational action is still possible for him. And because almost no society can survive for long if no one in it is efficiently pursuing his goals, there is usually some kind of predictability in the political system. Citizens who behave irrationally do so partly because someone who stands to gain thereby urges them on. For example, a party which perennially makes false promises can gain votes if it convinces voters to believe its lies. It is rational for this party to encourage voters to behave irrationally. Tensions of this type often exist, but as long as someone's rationality prevails, behavior can still be predicted.

Thus, to cope with seemingly irrational behavior, the rational man must try to discern the underlying pattern of rationality; he must discover whose ends this behavior is actually serving and what those ends are. Then he can decide, in view of his own ends, how he should react to this behavior. Only when no pattern can be dis-

covered and all acts are unpredictable—i.e., when chaos prevails—is there no rational course for a man who knows his own goals.

Therefore rational behavior requires a predictable social order. Just as the rational producer must be able to make reasonably accurate forecasts of his demand and costs if he is to invest intelligently, so the rational man in politics must be able roughly to predict the behavior of other citizens and of the government. Some ambiguity is inevitable, but whenever uncertainty increases greatly, rationality becomes difficult.

Because government provides the framework of order upon which the rest of society is built, political rationality has a function much more fundamental than the mere elimination of waste in governing. Rational behavior is impossible without the ordered stability which government furnishes. But government will continue to furnish such stability only so long as the political system functions efficiently, i.e., so long as it is rational. Thus political rationality is the sine qua non of all forms of rational behavior.

Of course, political rationality need not operate democratically, as it does in our model. As long as uncertainty is diminished and stable order introduced and maintained, rational action is possible, even if tyranny prevails. Furthermore, political rationality need not be perfect, since most political systems operate tolerably well without being purged of every inefficiency. Nevertheless, a high degree of political rationality is necessary in every large-sized society if it is to solve its problems successfully.

II. THE STRUCTURE OF THE MODEL

Our model is based on the assumption that every government seeks to maximize political support. We further assume that the government exists in a democratic society where periodic elections are held, that its primary goal is reëlection, and that election is the goal of those parties now out of power. At each election, the party which receives the most votes (though not necessarily a majority) controls the entire government until the next election, with no intermediate votes either by the people as a whole or by a parliament.

The governing party thus has unlimited freedom of action, within the bounds of the constitution.

The most important of these bounds is that the government—i.e., the governing party—cannot hamper the operations of other political parties in society. It cannot restrict their freedom of speech, or their ability to campaign vigorously, or the freedom of any citizen to speak out against any party. Nor can it alter the timing of elections, which recur at fixed intervals.8

Economically, however, there are no limits to its power. It can nationalize everything, or hand everything over to private parties, or strike any balance between these extremes. It can impose any taxes and carry out any spending it desires. The only restraint upon it is that of maintaining political freedom; therefore it must not vitiate its opponents by economic policies aimed specifically at injuring them. Also it must economically uphold the voting rights of its citizens.⁹

Some political theorists may object that this government seems to have little connection with the state it is supposed to run. Sociol-

⁷ Throughout this thesis we use the term government in the European sense; i.e., it always refers to the governing party unless otherwise noted.

⁸ Although elections recur at fixed intervals in our model, they could just as easily recur at any time within fixed time limits, with the exact date set by the incumbent party, as in the British political system. Thus our stricture is stronger than necessary; we make it so only to eliminate the timing of elections from the area of party strategy. Alteration of this axiom to resemble the British system

would affect none of our conclusions.

⁹ It can be argued that government must not destroy private property rights if it is to guarantee political freedom for its citizens, since they must remain independent of its control. However, private property in this sense does not mean an ownership claim over the means of production, but a legally protected share of their output. If a citizen knows his income depends upon fulfillment of certain well-defined tasks connected with his job, and that the law protects him from income losses resulting from any actions unconnected with that job, he is free to follow his own political inclinations, regardless of whether he works for the state or a private firm. He owns his job, and as long as he carries out its duties, he cannot be deprived of it without due process of law. Examples of this are seniority rights in unions and status grades in the civil service. We would agree that the government must not abolish both this kind of private property and private ownership of the means of production if political freedom is to exist; therefore government's economic power has some limits. Furthermore, since all private property depends upon a legal system independent of politics, one of the elements of our model's constitution must be such a system.

ogists might further object that reëlection per se is of no value to anyone; therefore some deeper motives must lie behind it. We will deal with both of these criticisms in Chapter 2. Meanwhile, let us assume that every government's goal is to be reëlected, whether the government be that of a nation, a province, or a municipality.10

Having given government a purpose, we can discover the most efficient means it can employ to achieve that purpose. In other words, we can construct a model showing how a rational government behaves in the kind of democratic state we outlined above. However, we first need to know more about the world in which our model government is to function.

This world differs from the usual general-equilibrium world because it contains uncertainty. True, in order to study the basic logic of decision-making in our political economy, we will assume perfect knowledge in Chapters 3 and 4. However, these chapters are only preliminary to the later analysis of behavior when uncertainty prevails

Our reason for stressing uncertainty is that, in our opinion, it is a basic force affecting all human activity, particularly economic activity. Coping with uncertainty is a major function of nearly every significant institution in society; therefore it shapes the nature of each. A prime example is money, which Lord Keynes and others have shown to be a response to uncertainty, a link between the present and a not-definitely-known future.11 It would be absurd to study money only in a certain world and hope to discover its essence -in fact, the attempt to do so led to inherent contradictions.

Similarly, though we can find out something about how rational governments operate by analyzing them in a "certain" world, we learn much more by facing uncertainty and the problems it creates. Many of these problems are related to the cost of obtaining informa-

¹⁰ Our main concern is with the national government throughout this thesis. However, much of the reasoning also applies to the other types.

11 See John Maynard Keynes, The General Theory of Employment, Interest, and Money (New York: Harcourt, Brace and Company, 1936), ch. 17. For a lucid explanation of this chapter, see Abba P. Lerner, "The Essential Properties of Interest and Money," Quarterly Journal of Economics, LXVI (1952), 172– 193.

tion. Therefore we devote several chapters to examining how this cost affects rational political behavior.

We hope that our study will be of interest to students of democracy as well as to economists. Few of our conclusions are new; in fact, some have been specifically stated by Walter Lippmann in his brilliant trilogy on the relation between public opinion and democratic government.¹² However, our attempt to trace what rational men will do, both as citizens and in government, is novel as far as we know. It tends to prove logically contentions that Lippmann and others have reached by observing politics empirically.

Thus our model could be described as a study of political rationality from an economic point of view. By comparing the picture of rational behavior which emerges from this study with what is known about actual political behavior, the reader should be able to draw some interesting conclusions about the operation of democratic politics.

III. THE RELATION OF OUR MODEL TO PREVIOUS ECONOMIC MODELS OF GOVERNMENT

Most economic treatments of government concern its policies in particular fields, such as monetary control, maintenance of employment, price stabilization, regulation of monopolies, and international trade. The few analyses of government activities as a whole are mostly normative; i.e., they deduce the type of actions which a government should undertake from some basic ethical principle about its proper function.

Our analysis is likewise deductive, since it posits a basic rule and draws conclusions therefrom. However, it is also positive, because we try to describe what will happen under certain conditions, not what should happen. Nevertheless, we shall briefly show how it is related to several normative ideas advanced by other economists, and how it attempts to solve certain problems they have raised.

¹² Walter Lippmann, Public Opinion (New York: The Macmillan Company, 1922), The Phantom Public (New York: Harcourt, Brace and Company, 1925), and Essays in the Public Philosophy (Boston: Little, Brown and Company, 1955).

A. THE PROBLEM OF FALSE PERSONIFICATION VS. OVER-INDIVIDUALISM

In an article on "The Pure Theory of Government Finance," James Buchanan suggested two mutually exclusive ways to view decision-making by the state. 13 The first is to consider the state a separate person with its own ends not necessarily related to the ends of individuals. It acts to maximize its own welfare or utility by manipulating government spending and taxation so that the marginal gain from further spending is equal to the marginal loss from further taxing. These gains and losses are social—felt by the personality of the state. They are not the gains and losses of individuals in some aggregated form.

Though this "organismic" approach is intellectually neat, it has no substantive content, as Buchanan points out. No one knows what the welfare function of the state-as-a-person looks like, nor can anyone ever find out. Therefore it is useless as a guide to practical decisions.

Buchanan's second approach considers only individuals as having end structures. The state has no welfare function of its own; it is merely a means by which individuals can satisfy some of their wants collectively. For example, the state has a monopoly of certain services, but instead of trying to maximize profits, it seeks only to cover costs in the long run. Individuals buy services from it and pay it only for those services they receive. Thus a basic quid pro quo benefit principle underlies the functioning of the state and establishes limits on what it does.¹⁴

At first glance, this voluntaristic view of the state does not square with its use of coercion in collecting taxes. If taxes are merely quid pro quo payments for services rendered, why must citizens be forced

¹³ James Buchanan, "The Pure Theory of Government Finance: A Suggested Approach," Journal of Political Economy, LVII (December, 1949), 496–505.

¹⁴ These two approaches have been elaborated in greater detail by Edward C. Banfield, who distinguishes between two types of "unitary" view of the state and three types of "individualistic" view. His analysis does bring Buchanan's ideas closer to reality, but it does not alter the basic dichotomy which we are discussing. See "Note on the Conceptual Scheme," in Martin Meyerson and Edward C. Banfield, Politics, Planning, and the Public Interest (Glencoe, Ill.: The Free Press, 1955), pp. 322–329.

to pay them? Paul Samuelson has answered this question by arguing that in this model world the state undertakes only those activities providing indivisible benefits. Since every man enjoys the benefits of every government act, no matter who pays for it, each man is motivated to evade paying himself. However, he will be willing to pay his share of the cost—since he does receive benefits for it—if all others also bear their shares. All citizens agree to be coerced, since each individual's gain more than offsets his part of the cost, and benefits are provided which otherwise could not be had. The voluntaristic nature of the state is thus not contradicted by its use of coercion. 16

Julius Margolis has strongly attacked this conception of the state as entirely unrealistic.¹⁷ He points out that almost no activities undertaken by the state produce purely indivisible benefits. Even national defense, the classic example of indivisible benefits, aids some people more than others, and the marginal expenditure on it may actually harm some citizens. Most other government actions produce clearly divisible benefits; e.g., the more citizens B through Z use government-built roads, the more crowded these roads become, and the less utility citizen A gets from using them. The fact that government carries out such activities instead of private firms cannot be explained by Samuelson's criterion. His model, says Margolis, limits the state to so few actions that it cannot reasonably be accepted even as a normative theory of government activity. We agree.

¹⁵ Paul A. Samuelson, "The Pure Theory of Public Expenditures," Review of Economics and Statistics, XXXVI (November, 1954), 387-389. Samuelson states also that the government will make direct transfer payments (taxes plus expenditures) to satisfy "the ethical observer." However, these transfers do not involve any resource-exhausting government activities; hence they are irrelevant to our discussion of such activities.

¹⁶ A similar approach is used by William J. Baumol, op. cit., and is stated and criticized by Richard A. Musgrave in "The Voluntary Exchange Theory of Public Economy," Quarterly Journal of Economics, LIII (1939). These analyses are enough like Samuelson's so that we need not treat them separately.

¹⁷ Julius Margolis, "A Comment on the Pure Theory of Public Expenditures," Review of Economics and Statistics, XXXVII (November, 1955), 347-349. Samuelson's reply concedes some of the points made by Margolis and clarifies the nature of "public" and "private" goods. See Paul A. Samuelson, "Diagrammatic Exposition of a Theory of Public Expenditure," Review of Economics and Statistics, XXXVII (November, 1955), 355-356.

Our own criticism of the Buchanan-Samuelson approach is that it poses a false dichotomy between two views, one of which is totally false and the other of which expresses only part of the truth. On one hand, the organismic view of government is untrue because it is based upon a mythical entity: a state which is a thing apart from individual men. On the other hand, the individualistic view is incomplete because it does not take coalitions into consideration.

As we shall see in Chapter 2, when a small group of men acting in coalition runs the apparatus of the state, we can reasonably speak of the government as a decision-maker separate from individual citizens at large. Thus we avoid both false personification of a mental construct and an over individualistic view of society. However, we are still faced with the problem of discovering a relationship between the ends of individuals at large and the ends of the coalition which does not restrict government to providing indivisible benefits. Our model attempts to describe such a relationship.

B. THE SOCIAL-WELFARE-FUNCTION PROBLEM

Exactly the same problem has long been the center of controversy in the new welfare economics, where Abram Bergson's "social welfare function" was advanced as a solution to it. 18 Having rejected cardinal utility and psychological interpersonal comparisons, Bergson attempted to substitute for them an abstract rule for the derivation of social ends from individual ends. He called this rule the "social welfare function."

This amorphous entity has been the target of two major criticisms. One is that it does not remove the necessity of weighting each individual's desires in the process of arriving at a collective end structure. Yet any such weighting is in fact an interpersonal comparison of welfare; it serves the same function as the assumption that all men are of equal ethical value in Pigou's earlier analysis. Thus, using a social welfare function does not solve the problem of

¹⁸ Abram Bergson (Burk), "A Reformulation of Certain Aspects of Welfare Economics," *Quarterly Journal of Economics*, LII (February, 1938), 314-344.

how to make interpersonal comparisons, as Bergson himself admitted.¹⁹

The second criticism has been stated by Kenneth Arrow and will be analyzed in detail in Chapter 4.20 To put it briefly, Arrow has shown that if most choice situations involve more than two alternatives, and if the preferences of individuals are sufficiently diverse, no unique and transitive general welfare function can be constructed unless some part of society dictates to the rest. This argument demolished what was left of Bergson's social welfare function and dissolved the relationship between individual and social ends which it had tried to establish.

Welfare economics was therefore pushed back into the emasculated state it had earlier entered by rejecting two postulates: cardinal utility and interpersonal welfare comparisons. These axioms had been thrown out because the first was unnecessary and both were based upon an empirically false psychological view of man. But without them or others to replace them, few significant policy statements can be made.

Our model attempts to forge a positive relationship between individual and social end structures by means of a political device. Because each adult citizen has one vote, his welfare preferences are weighted in the eyes of the government, which is interested only in his vote, not his welfare. Thus in answer to the first criticism raised against Bergson, we admit openly that we are adopting an ethical principle—equality of franchise. We are making it a part of politics, where we believe social ethics should be dealt with. In short, we are returning to political economy.

However, this does not eliminate Arrow's contention that rational social action is sometimes impossible. Our defense against this attack consists essentially of a double evasion. We try to show the following: (1) Arrow's criticism is not always relevant, and (2) even when it is relevant, its impact is often limited to much narrower

See Tibor Scitovsky, "The State of Welfare Economics," American Economic Review, XLI (1951), 303-315.
 Kenneth J. Arrow, op. cit., passim.

areas of choice than one might suppose. These arguments will be presented in Chapter 4.

Although our model is related to the basic welfare-economics problem which Bergson tried to solve, it is not a normative model. We cannot use it to argue that society is better off in state A than in state B or that government should do X but not Y. The only normative element it contains is implicit in the assumption that every adult citizen has one and only one vote. Actually, even though an ethical judgment must be the ultimate justification for this assumption, we incorporate it into our model simply as a factual parameter, not a normative one. Therefore the relationship we construct between individual and government ends is one that we believe will exist under certain conditions, not one that should exist because it fulfills some ideal set of requirements.

C. TECHNICAL PROBLEMS

Many normative approaches to government decision-making feature such devices as referenda on every decision, perfect knowledge by the government of every citizen's preference structure, and precise calculation and payment of compensation. These devices undoubtedly play a legitimate role in theoretical analysis; we occasionally use them ourselves. However, most of our study is concerned with what would actually happen if men in our fairly realistic world behaved rationally. Therefore we cannot rely on procedures which the division of labor renders impractical, as it does all three of those mentioned above.

On the other hand, our analysis suffers from the same generality that plagues the traditional theories of consumer and firm behavior. We cannot fill in the details of our vote function any more than J. R. Hicks filled in the details of the indifference maps or production functions in Value and Capital.²¹ To do so is the task of politicians, consumers and businessmen respectively. Abstract analysts

²¹ J. R. Hicks, Value and Capital, Second Edition (Oxford: Clarendon Press, 1950), Chs. I, VI, and VII.

like ourselves can only show how these details fit into the general scheme of things.

IV. SUMMARY

Although governments are of crucial importance in every economy, economic theory has produced no satisfactory behavior rule for them comparable to the rules it uses to predict the actions of consumers and firms. Our thesis attempts to provide such a rule by positing that democratic governments act rationally to maximize political support.

By rational action, we mean action which is efficiently designed to achieve the consciously selected political or economic ends of the actor. In our model, government pursues its goal under three conditions: a democratic political structure which allows opposition parties to exist, an atmosphere of varying degrees of uncertainty, and an electorate of rational voters.

Our model bears a definite relation to previous economic models of government, though ours is positive and most others are normative. Buchanan posed a dichotomy between organismic and individualistic conceptions of the state; we try to avoid both extremes. Samuelson and Baumol argued that the state can efficiently undertake only straight income transfers and actions with indivisible benefits; we try to show that it has many other legitimate roles. Bergson tried to establish relations between individual and social ends by means of a purely ethical postulate; we adopt an ethical axiom in political form. Arrow proved that no such relations could be established rationally without dictation; we try to show how his dilemma can be circumvented.

We attempt these tasks by means of a model which is realistic and yet does not fill in the details of the relationships within it. In short, we wish to discover what form of political behavior is rational for the government and citizens of a democracy.

The Basic Logic of Voting

Introduction

IN ORDER to plan its policies so as to gain votes, the government must discover some relationship between what it does and how citizens vote. In our model, the relationship is derived from the axiom that citizens act rationally in politics. This axiom implies that each citizen casts his vote for the party he believes will provide him with more benefits than any other.

Though this definition seems obvious, it is actually based upon concepts which are both complex and ambiguous. In this chapter we examine them carefully in order to show what "rational voting" really implies.

I. UTILITY INCOME FROM GOVERNMENT ACTIVITIES

The benefits voters consider in making their decisions are streams of utility derived from government activity. Actually, this definition is circular, because we define utility as a measure of benefits in a citizen's mind which he uses to decide among alternative courses of action. Given several mutually exclusive alternatives, a rational man always takes the one which yields him the highest utility,

ceteris paribus; i.e., he acts to his own greatest benefit. This follows directly from the definition of rationality which is given in Chapter 1.

All citizens are constantly receiving streams of benefits from government activities. Their streets are policed, water purified, roads repaired, shores defended, garbage removed, weather forecast, etc. These benefits are exactly like the benefits they receive from private economic activity and are identified as government-caused only by their source. Of course, there are enormous qualitative differences between the benefits received, say, from national defense and from eating mince pie for dessert. But no matter how diverse, all benefits must be reduced to some common denominator for purposes of allocating scarce resources. This is equally true of benefits within the private sector. The common denominator used in this process we call utility.

It is possible for a citizen to receive utility from events that are only remotely connected to his own material income. For example, some citizens would regard their utility incomes as raised if the government increased taxes upon them in order to distribute free food to starving Chinese. There can be no simple identification of "acting for one's own greatest benefit" with selfishness in the narrow sense because self-denying charity is often a great source of benefits to oneself. Thus our model leaves room for altruism in spite of its basic reliance upon the self-interest axiom.

Using this broad concept of utility, we can speak of a utility income from government activity. This income includes benefits which the recipient does not realize he is receiving. It also includes benefits he knows he is receiving but the exact source of which he does not know. For example, many citizens are probably not aware that the water they drink is inspected by a government agency. If inspection were discontinued, they might not realize their utility incomes had fallen until they received polluted water. Even then, not all of them would know that a cessation of government activity had caused this drop in income.

The fact that men can receive utility income from government actions without being aware of receiving it may seem to violate the usual definition of *income*. Nevertheless, we must insist upon it, be-

cause an important political strategy of governments is making voters aware of benefits they are already receiving. However, only benefits which voters become conscious of by election day can influence their voting decisions; otherwise their behavior would be irrational.

II. THE LOGICAL STRUCTURE OF THE VOTING ACT

A. TERMINOLOGY OF THE ANALYSIS

By defining income as a flow of benefits, we have involved ourselves in time, since flows can only be measured as rates per unit of time. The unit of time we use is the *election period*. It is defined as the time elapsing between elections, and it forms the principal unit of judgment in a voter's mind.

At least two election periods enter into a rational voter's calculations: the one following the coming election, and the one ending on election day. We will refer to these periods t+1 and t respectively.

To illustrate the verbal analysis, we also employ several other symbols as follows:

U stands for an individual voter's real or hypothetical utility income from government activity during one election period.

A is the incumbent party, i.e., the governing party in period t.

B is the opposition party, i.e., the party out of power in period t. (In the first part of the analysis, we assume a two-party system.)

U° stands for utility income actually received during a period. It is the utility income provided by the party in power during that period.

Us stands for the utility income which a voter believes is the highest he could possibly have received during some period. It is the utility income which the ideal government would have provided him if it had been in power during that period.

E stands for expected value.

B. THE TWO PARTY DIFFERENTIALS

Each citizen in our model votes for the party he believes will provide him with a higher utility income than any other party during

the coming election period.¹ To discover which party this is, he compares the utility incomes he believes he would receive were each party in office. In a two-party system, this comparison can be set up as a simple subtraction:

$$E(U_{t+1}^{A}) - E(U_{t+1}^{B})$$

The difference between these two expected utility incomes is the citizen's expected party differential. If it is positive, he votes for the incumbents; if it is negative, he votes for the opposition; if it is zero, he abstains.²

At first glance, rational voting thus appears to be a very simple matter. But its apparent ease is deceiving, for a crucial question remains: how should a rational voter calculate the expected utility incomes from which he derives his expected party differential? It is in answering this question that we encounter difficulties.

When a man votes, he is helping to select the government which will govern him during the coming election period (i.e., period t+1). Therefore as we have just shown, he makes his decision by comparing future performances he expects from the competing parties. But if he is rational, he knows that no party will be able to do everything that it says it will do. Hence he cannot merely compare platforms; instead he must estimate in his own mind what the parties would actually do were they in power.³

Since one of the competing parties is already in power, its performance in period t gives him the best possible idea of what it will do in the future, assuming its policies have some continuity. But

The tendency of every rational party to maintain continuity in its policies is

discussed in Chapter 7.



¹ From now on, the term *utility income* refers specifically to utility income from government activity unless otherwise noted.

² We discuss the decision rule for multiparty systems later in this chapter.
³ The governing party in our model has such broad powers that perhaps it could carry out all its promises. Nevertheless, we assume here that it cannot for two reasons: (1) in the real world and in our own uncertainty model, government cannot foresee all the obstacles it will encounter; clearly this fact has repercussions upon the structure of voters' thinking; and (2) in a two-party system, each party deliberately makes ambiguous promises; hence platforms are poor harbingers of actions even in our model. The second point is discussed in detail in Chapter 8.

it would be irrational to compare the current performance of one party with the expected future performance of another. For a valid comparison, both performances must take place under the same conditions, i.e., in the same time period. Therefore the voter must weigh the performance that the opposition party would have produced in period t if it had been in power.

True, this performance is purely hypothetical; so he can only imagine what utility income he would have derived from it. But party B's future is hypothetical, too—as is that of party A. Thus he must either compare (1) two hypothetical future utility incomes or (2) one actual present utility income and one hypothetical present one. Without question, the latter comparison allows him to make more direct use of concrete facts than the former. Not only is one of its terms a real entity, but the other can be calculated in full view of the situation from which it springs. If he compares future utility incomes, he enjoys neither of these advantages. Therefore, we believe it is more rational for him to ground his voting decision on current events than purely on future ones.

As a result, the most important part of a voter's decision is the size of his current party differential, i.e., the difference between the utility income he actually received in period t and the one he would have received if the opposition had been in power.⁵ Algebraically, this entity is calculated as follows:

$$(U_t^A) - E(U_t^B)$$

It is the major determinant of his expected party differential.

However, this conclusion does not mean that citizens in our model ignore the future when deciding how to vote. Obviously, such an attitude would be irrational, since the purpose of voting is to select a future government. Therefore the rational man in our model applies two future-orienting modifiers to his current party differential in order to calculate his expected party differential.

⁵ To avoid confusion, we adopt the following rule: whenever the term party differential appears without the adjective current immediately preceding it, it always denotes the expected party differential.

C. THE TREND FACTOR AND PERFORMANCE RATINGS

The first of these modifiers we call simply the trend factor. It is the adjustment each citizen makes in his current party differential to account for any relevant trend in events that occurs within the current election period. For example, let us assume that a voter believes the present government made many mistakes upon first taking office but has steadily improved and is now governing expertly. He may feel that this expertness will prevail throughout the next election period if the incumbents are reëlected. Therefore he adjusts his current party differential to eliminate the impact of their initial blunders. Conversely, if he feels the government started out superbly but has continuously degenerated, he may project only its bad performance into his expected party differential.

The second modifier comes into play only when the citizen cannot see any difference between the two parties running; i.e., when he thinks they have identical platforms and current policies. To escape from this deadlock, he alters the basis of his decision to whether or not the incumbents have done as good a job of governing as did their predecessors in office.

Our use of this particular tie-breaking device may seem rather arbitrary. Why should a rational man pay attention to the past in selecting a future government? Why should the present similarity of parties cause him to drag past governments into his decisions?

The answer to these questions is derived from the impact of elections per se upon party behavior. In effect, every election is a judgment passed upon the record of the incumbent party. But the standards used to judge its record are of two types. When the opposition's policies in period t have differed from those of the incumbents, the judgment expresses the voters' choice between the future projections of these two policy sets. But if the opposition's policies

⁶ When perfect information exists, citizens think parties' policies are identical only when they really are identical. But in a world where men are not fully informed, some actual differences between parties may escape notice because they are not significant enough to exceed voters' perception thresholds. For a further explanation of this possibility, see Section III of this chapter.

have been identical with those of the incumbents, mere projection provides the voters with no real choice. In this case, their judgment expresses whether they rate the incumbents' record as good or bad according to some abstract standard.

Thus every election is a signaling device as well as a government selector. However, in a two-party system, it is limited to giving one of two signals. The incumbents always regard reëlection as a mandate to continue their former policies. Conversely, the opposition party regards its triumph as a command to alter at least some of the incumbents' policies; otherwise, why would people have voted for it? In short, the outcome calls for either "no change" or "change." Hence it always makes a difference which party is elected, no matter how similar their records in period t. If the opposition wins, it is sure to carry out policies different from those the incumbents would have carried out had they been reëlected.

However, no one knows in advance just what policy changes the opposition will make if it is elected. Nor can they be discovered by looking at the opposition's hypothetical record in period t, since (we are here assuming) it is identical with that of the incumbents. But if men do not know what change signifies, how can they rationally vote for or against it?

Rational men are not interested in policies per se but in their own utility incomes. If their present utility incomes are very low in their own eyes, they may believe that almost any change likely to be made will raise their incomes. In this case, it is rational for them to vote against the incumbents, i.e., for change in general.

On the other hand, men who are benefiting from the incumbents' policies may feel that change is likely to harm rather than help them. True, the opposition might introduce new policies which would raise their utility incomes. But their incomes are so high already that they fear any break in the continuity of present policies. Hence they rationally vote for the incumbents, i.e., against change in general.

Clearly, both actions are rational responses to the fact that elections inevitably signal change or no change. They show that even when the parties running have identical records in period t, many citizens may reasonably expect different utility incomes from each

party in period t+1. Therefore abstention is rational only if a citizen believes that either (1) the policy changes that will be made if the opposition is elected will have no net effect upon his utility income or (2) these changes may affect his income, but the probability that they will raise it is exactly equal to the probability that they will lower it; i.e., the expected change is zero.

Two things are to be noted about this reasoning. First, we have admitted a degree of uncertainty into our certainty model. However, the purpose of this model is to prepare for analysis of the uncertainty model; hence we feel justified in taking uncertainty into account whenever it affects the basic structure of rational behavior.

Second, we have argued that the incumbents' record can be judged as good or bad even when it is identical with the record of the opposition. But what standard for judgment exists in this case? With what can the incumbents' record be compared?

In the real world, men often compare what government is doing with what it should be doing without referring to any other party. Instead they are implicitly comparing the utility incomes they are actually receiving with those they would be receiving if the ideal government were in power. Of course, every man does not have the same ideals as every other. Yet each man can use his private conception of the ideal government to assign a performance rating to the incumbent party or any other party. Algebraically, it is computed as follows:

$\left[\frac{U_t^i}{U_t^a} \right]$

Performance ratings are extremely useful for comparing governments operating in different time periods or even in different areas.8 They are necessary for such comparisons because absolute levels of utility income from different time periods cannot be compared di-

⁸ Our use of ratios to denote performance ratings is purely arbitrary; any other mathematical measure which allows relative comparisons can be substituted with-

out changing the argument.

⁷ To compute the ratings of parties not now in office, it is necessary (1) to substitute the real (or hypothetical) incomes they did (or would) provide for the actual income being received and (2) to select the appropriate ideal income so that both terms of the fraction concern the same time period.

rectly, as we saw earlier. The performance rating of a government may change for the following reasons: (1) it changes its actions while other conditions remain the same; (2) it keeps the same actions, and they give rise to the same utility as before, but other circumstances change so that the ideal utility-income level alters; or (3) it keeps the same actions, but other circumstances change so that these actions no longer produce the same utility incomes.

In our model, performance ratings enter a voter's decision-making whenever he thinks both parties have the same platforms and current policies. At first glance, this rule seems to imply discontinuity in the voter's thinking, but in fact it does not. Every rational voter knows that if the opposition party is elected, it will alter some of the policies now being followed by the incumbents. But whenever the two parties have different platforms or current policies, he also knows just what changes will be made. Therefore he can choose between parties by deciding how he likes these specific changes.

However, when he believes the two parties have identical platforms and current policies, he no longer knows what specific changes will occur if the opposition wins. Therefore he is forced to base his decision upon his attitude towards change in general. There is no shift in his method of deciding how to vote; rather a shift in the evidence available causes him to discard one tool and use another. The object of both tools is the same—to estimate the gain he will get from voting for one party instead of the other.

Thus voters use performance ratings only when their current party differentials are zero and not always then. A man's current party differential may be zero for two reasons: (1) both parties have identical policies and platforms; or (2) though their policies and platforms are different, they produce identical utility incomes for him. In the latter case, performance ratings are useless to him because he already knows what changes will take place if the opposition wins. Since these changes do not alter his utility income, he abstains. But in the former case he does not know what changes the opposition will make; hence he needs some way to determine his attitude toward change in general. We have already shown that (1) this attitude depends upon how good a job he thinks the incumbents

are doing in providing him with utility income and (2) he can rate the incumbents' performance against an ideal performance. But by what standard does he evaluate, say, a rating of 40 percent as good or bad?

Formulating such a standard is what requires the voter to consider the performances of past governments. In our model, each voter develops his own standard out of his experiences with other governments. By computing their performance ratings, he creates a measuring rod with which he can discover whether the incumbents have been doing a good, bad, or indifferent job of governing. He votes for them if their rating is good, against them if it is bad, and not at all if it is indifferent. Thus he may rationally assign a non-zero value to his expected party differential even when both parties have identical records in period t.

III. PRELIMINARY DIFFICULTIES CAUSED BY UNCERTAINTY

So far we have glibly spoken of voters computing their party differentials and performance ratings without pointing out how difficult such computation is. In order to find his current party differential, a voter in a two-party system must do the following: (1) examine all phases of government action to find out where the two parties would behave differently, (2) discover how each difference would affect his utility income, and (3) aggregate the differences in utility and arrive at a net figure which shows by how much one party would be better than the other. This is how a rational voter would behave in a world of complete and costless information—the same world in which dwell the rational consumer and the rational producer of traditional economic theory.

In the real world, uncertainty and lack of information prevent even

⁹ When voting is costless, a voter using preference ratings always votes if the incumbents have done a good (or bad) job, but this is not true when voting is costly. In the latter case, the losses (or benefits) he expects from change in general must be large enough to outweigh the cost of voting; otherwise he will abstain even though the incumbents do not have an indifferent rating. For a more detailed discussion of abstention when voting is costly, see Chapter 14.

the most intelligent and well-informed voter from behaving in precisely the fashion we have described. Since he cannot be certain what his present utility income from government is, or what it would be if an opposition party were in power, he can only make estimates of both. He will base them upon those few areas of government activity where the difference between parties is great enough to impress him. When the total difference in utility flows is large enough so that he is no longer indifferent about which party is in office, his party differential threshold has been crossed. Until then, he remains indifferent about which party is in power, even if one would give him a higher utility income than the other. The existence of thresholds raises the probability that the expected party differential will be zero, i.e., that abstention will occur. It also makes it possible to change a voter's mind by providing him with better information about what is already happening to him.

At this point, we encounter two major problems. First, when we open the door of our model to uncertainty, we must also admit such undesirables as errors, false information, and ignorance. Because in this chapter we deal only with the basic logic of voting, we will postpone consideration of these factors until later except for one proviso. Throughout this thesis, we assume that no false (i.e., factually incorrect) information exists, though incomplete information can exist. Thus we exclude deliberate lies from our model, though errors and misleading data may remain.

The second problem is rooted in the very concept of a voter's changing his mind about how to vote. As we have shown, every voter makes his voting decisions by comparing various real and hypothetical streams of utility income. To decide what impact each government act has upon his income, he appraises it as good or bad in the light of his own view of "the good society." This procedure is rational because every citizen in our model views government as a means to the achievement of the good society as he sees it.

Thus a man's evaluation of each party depends ultimately upon (1) the information he has about its policies and (2) the relation between those of its policies he knows about and his conception of the good society. Once a voter has even provisionally decided how to

vote, he can be persuaded to change his mind only if one of these two factors is altered. To simplify the analysis, we assume that every citizen has a fixed conception of the good society and has already related it to his knowledge of party policies in a consistent manner. Therefore only new information can persuade him to change his mind.

In essence, we are assuming that citizens' political tastes are fixed. Even though these tastes often change radically in the long run, we believe our assumption is plausible in the short run, barring wars or other social upheavals. In fact, fixed political tastes seem far more plausible to us than fixed consumption tastes, which are usually assumed in demand studies.

IV. VARIATIONS IN MULTIPARTY SYSTEMS

Our analysis has so far been in terms of a two-party system, but its conclusions can easily be extended to a multiparty system. In the latter, a voter follows the same rules as in the former, but compares the incumbent party with whichever of the opposition parties has the highest present performance rating, i.e., would yield him the largest utility income if it were now in office.

However, there is one eventuality in a multiparty system that does not arise in a two-party system: a rational voter may at times vote for a party other than the one he most prefers. For example, when the Progressive Party ran a candidate in the American Presidential election of 1948, some voters who preferred the Progressive candidate to all others nevertheless voted for the Democratic candidate. They did so because they felt their favorite candidate had no chance at all, and the more people voted for him, the fewer would vote Democratic. If the Democratic vote fell low enough, then the Republicans—the least desirable group from the Progressive point of view—would win. Thus a vote for their favorite candidate ironically increased the probability that the one they favored least would win. To avoid the latter outcome, they voted for the candidate ranking in the middle of their preference ordering.

Clearly, this is rational behavior, but it contradicts our simple

rule for how voters should act. This discrepancy demands an explanation. First we must point out that in our model, elections are devices for the selection of governments, though they actually serve many purposes besides this one. They can also be (1) means of creating social solidarity, as they are in modern communist countries, (2) expressions of political preference, (3) devices for releasing personal aggression in legitimate channels (e.g., in political campaigns), and (4) incentives for citizens to inform themselves about current events. Nevertheless, we are interested in elections solely as means of selecting governments, and we define rational behavior with that end in mind.

A rational voter first decides what party he believes will benefit him most; then he tries to estimate whether this party has any chance of winning. He does this because his vote should be expended as part of a selection process, not as an expression of preference. Hence even if he prefers party A, he is "wasting" his vote on A if it has no chance of winning because very few other voters prefer it to B or C. The relevant choice in this case is between B and C. Since a vote for A is not useful in the actual process of selection, casting it is irrational.

Thus an important part of the voting decision is predicting how other citizens will vote by estimating their preferences. Each citizen uses his forecast to determine whether the party he most prefers is really a part of the relevant range of choice. If he believes it is not, then rationality commands him to vote for some other party.

In the absence of any information whatever about what other voters are likely to do, the rational voter always votes for the party he prefers. He also does so whenever the information he has leads him to believe his favorite party has a reasonable chance of winning. The precise stochastic meaning of "reasonable" cannot be defined a priori; it depends upon the temperament of each voter. However, the less chance of winning he feels his favorite party has, the more likely he is to switch his vote to a party that has a good chance.

The exact probability level at which he switches will partly depend upon how important he thinks it is to keep the worst party from winning. For example, let us assume that there are three parties: Right, Center, and Left. Voter X prefers Right to Center and Center to Left, but he believes that Right has the least chance of winning. If he greatly prefers Right to Center and is almost indifferent between Center and Left, he is less likely to switch his vote from Right to Center than if he slightly prefers Right to Center but abhors Left.

This situation becomes even more complex when we consider future-oriented voting. A voter may support a party that today is hopeless in the belief that his support will enable it to grow and someday become a likely winner—thus giving him a wider range of selection in the future. Also, he may temporarily support a hopeless party as a warning to some other party to change its platform if it wants his support. Both actions are rational for people who prefer better choice-alternatives in the future to present participation in the selection of a government.¹⁰

V. SUMMARY

In a world where he is furnished with complete, costless information, the rational citizen makes his voting decision in the following way:

- By comparing the stream of utility income from government activity he has received under the present government (adjusted for trends) with those streams he believes he would have received if the various opposition parties had been in office, the voter finds his current party differentials. They establish his preference among the competing parties.
- 2. In a two-party system, the voter then votes for the party he prefers. In a multiparty system, he estimates what he believes are the preferences of other voters; then he acts as follows:
 - a. If his favorite party seems to have a reasonable chance of winning, he votes for it.
 - b. If his favorite party seems to have almost no chance of win-

¹⁰ For a more detailed discussion of voting in multiparty systems, see Chapters 8 and 9.



- ning, he votes for some other party that has a reasonable chance in order to keep the party he least favors from winning.
- c. If he is a future-oriented voter, he may vote for his favorite party even if it seems to have almost no chance of winning in order to improve the alternatives open to him in future elections.
- 3. If the voter cannot establish a preference among parties because at least one opposition party is tied with the incumbents for first place in his preference ordering, he then acts as follows:¹¹
 - a. If the parties are deadlocked even though they have differing platforms or current policies or both, he abstains.
 - b. If the parties are deadlocked because they have identical platforms and current policies, he compares the performance rating of the incumbent party with those of its predecessors in office. If the incumbents have done a good job, he votes for them; if they have done a bad job, he votes against them; and if their performance is neither good nor bad, he abstains.

¹¹ The case in which two or more opposition parties are tied for first place is not covered by our decision rules. However, it seems rational for a citizen to vote for whichever of these top-ranking parties he thinks has the best chance of winning. For other considerations which might have a bearing upon his decision, see Chapter 9.