

A New Solution to the Random Assignment Problem

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A random assignment is *ordinally efficient* if it is not stochastically dominated with respect to individual preferences over sure objects. Ordinal efficiency implies (is implied by) *ex post* (*ex ante*) efficiency. A simple algorithm characterizes ordinally efficient assignments: our solution, probabilistic serial (PS), is a central element within their set. Random priority (RP) orders agents from the uniform distribution, then lets them choose successively their best remaining object. RP is *ex post*, but not always ordinally, efficient. PS is envy-free, RP is not; RP is strategy-proof, PS is not. Ordinal efficiency, Strategyproofness, and equal treatment of equals are incompatible. *Journal of Economic Literature* Classification Numbers: C78, D61, D63. © 2001 Academic Press.

Key Words: random assignment; ordinal; *ex post* or *ex ante* efficiency; strategyproofness; envy-free.

1. TWO PREVIOUS SOLUTIONS TO THE RANDOM ASSIGNMENT PROBLEM

The *assignment problem* is the allocation problem where n objects are to be allocated among n agents, and each agent is to receive exactly one object. Examples include the assignment of jobs to workers, of rooms to housemates, of time slots to users of a common machine, and so on (see Roth and Sotomayor [14], Abdulkadiroglu and Sönmez [1]).

Using a lottery is one of the oldest tricks (going further back than the *Bible*; see Hofstee [9]) to restore fairness in such problems.¹ Suppose we

¹ Another standard trick is to use monetary compensations; see Leonard [12], Demange [5]. Here we assume that money is not available.

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A New Solution To The Random Assignment Problem:

This book delves into A New Solution To The Random Assignment Problem. A New Solution To The Random Assignment Problem is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into A New Solution To The Random Assignment Problem, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to A New Solution To The Random Assignment Problem
 - Chapter 2: Essential Elements of A New Solution To The Random Assignment Problem
 - Chapter 3: A New Solution To The Random Assignment Problem in Everyday Life
 - Chapter 4: A New Solution To The Random Assignment Problem in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of A New Solution To The Random Assignment Problem. This chapter will explore what A New Solution To The Random Assignment Problem is, why A New Solution To The Random Assignment Problem is vital, and how to effectively learn about A New Solution To The Random Assignment Problem.
 3. In chapter 2, the author will delve into the foundational concepts of A New Solution To The Random Assignment Problem. This chapter will elucidate the essential principles that must be understood to grasp A New Solution To The Random Assignment Problem in its entirety.
 4. In chapter 3, the author will examine the practical applications of A New Solution To The Random Assignment Problem in daily life. The third chapter will showcase real-world examples of how A New Solution To The Random Assignment Problem can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of A New Solution To The Random Assignment Problem in specific contexts. This chapter will explore how A New Solution To The Random Assignment Problem is applied in specialized fields, such as education, business, and technology.
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of A New Solution To The Random Assignment Problem.

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