Problem Set 3 Solutions

Problem 3-1. Pattern Matching

Principal Skinner has a problem: he is absolutely *sure* that Bart Simpson has plagiarized some text on a recent book report. One of Bart's sentences sounds oddly familiar, but Skinner can't quite figure out where it came from. Skinner decides to see if some smart-alec MIT student can help him out.

Skinner gives you a DVD containing the full text of the Springfield public library. The data is stored in a **binary string** $T[1], T[2], \ldots, T[n]$, which we view as an array $T[1 \ldots n]$, where each $T[i]$ is either 0 or 1. Skinner also gives you the quote from Bart Simpson's book report, a shorter binary string $P[1 \ldots m]$, again where each $P[i]$ is either 0 or 1, and where $m < n$. For a binary string $A[1 \ldots k]$ and for integers i, j with $1 \le i \le j \le k$, we use the notation $A[i \ldots j]$ to refer to the binary string $A[i], A[i+1], \ldots, A[j]$, called a **substring** of A. The goal of this problem is to determine whether P is a substring of T, i.e., whether $P = A[i \ldots j]$ for some i, j with $1 \le i \le j \le n$.

For the purpose of this problem, assume that you can manipulate $O(\log n)$-bit integers in constant time. For example, if $x \le n^7$ and $y \le n^5$, then you can calculate $x + y$ in constant time. On the other hand, you may not assume that m-bit integers can be manipulated in constant time, because m may be too large. For example, if $m = \Theta(\log^2 n)$ and x and y are each m-bit integers, you *cannot* calculate $x + y$ in constant time. (In general, it is reasonable to assume that you can manipulate integers of length logarithmic in the input size in constant time, but larger integers require proportionally more time.)

(a) Assume that you have a hash function $h(x)$ that computes a hash value of the m-bit binary string $x = A[i \ldots (i + m - 1)]$, for some binary string $A[1 \ldots k]$ and some $1 \le i \le k - m + 1$. Moreover, assume that the hash function is perfect: if $x \neq y$, then $h(x) \neq h(y)$. Assume that you can calculate the hash function in $O(m)$ time. Show how to determine whether P is a substring of T in $O(mn)$ time.

Solution: We compute the hash of the pattern string, and compare it to the hash of all possible length-m substrings of A, i.e., compare $h(P)$ to $h(A[i \ldots (i + m - 1)])$, for $1 \le i < n - m + 1$. Since the hash function is perfect, $h(P) = h(A[i \ldots (i + m - 1)])$ if and only if $P = A[i \ldots (i + m - 1)]$. There are $O(n)$ hash functions to compute, $O(n)$ comparisons of hash values, and each computation and comparison requires $O(m)$ time, for a total running time of $O(mn)$.

Note that because calculation of the hash function takes $O(m)$ time, this algorithm is not asymptotically any better than simply comparing the substrings directly. This part is designed as motivation for the rest of the problem.

Solutions To Problem Set 3 Rubinstein Manual

Jessica J Manson

Solutions To Problem Set 3 Rubinstein Manual:

Student Solutions Manual to accompany Simulation and the Monte Carlo Method, Student Solutions Manual Dirk P. Kroese,Thomas Taimre,Zdravko I. Botev,Reuven Y. Rubinstein,2012-01-20 This accessible new edition explores the major topics in Monte Carlo simulation Simulation and the Monte Carlo Method Second Edition reflects the latest developments in the field and presents a fully updated and comprehensive account of the major topics that have emerged in Monte Carlo simulation since the publication of the classic First Edition over twenty five years ago While maintaining its accessible and intuitive approach this revised edition features a wealth of up to date information that facilitates a deeper understanding of problem solving across a wide array of subject areas such as engineering statistics computer science mathematics and the physical and life sciences The book begins with a modernized introduction that addresses the basic concepts of probability Markov processes and convex optimization Subsequent chapters discuss the dramatic changes that have occurred in the field of the Monte Carlo method with coverage of many modern topics including Markov Chain Monte Carlo Variance reduction techniques such as the transform likelihood ratio method and the screening method The score function method for sensitivity analysis The stochastic approximation method and the stochastic counter part method for Monte Carlo optimization The cross entropy method to rare events estimation and combinatorial optimization Application of Monte Carlo techniques for counting problems with an emphasis on the parametric minimum cross entropy method An extensive range of exercises is provided at the end of each chapter with more difficult sections and exercises marked accordingly for advanced readers A generous sampling of applied examples is positioned throughout the book emphasizing various areas of application and a detailed appendix presents an introduction to exponential families a discussion of the computational complexity of stochastic programming problems and sample MATLAB programs Requiring only a basic introductory knowledge of probability and statistics Simulation and the Monte Carlo Method Second Edition is an excellent text for upper undergraduate and beginning graduate courses in simulation and Monte Carlo techniques The book also serves as a valuable reference for professionals who would like to achieve a more formal understanding of the Monte Carlo method *Progress in Social Psychology* Martin Fishbein,2015-06-19 Originally published in 1980 this title was the first of a new monograph series in social psychology The editor presents a format for showing the progress of social psychology as a viable exciting and relevant discipline The papers contained in this volume represent progress in theory and method as well as in basic and applied research In addition recognising that not all social psychology is produced by people who label themselves as social psychologists the volume contains the contributions of scholars who are best known for their work in other areas The Economics of Business Valuation Patrick Anderson,2013-04-10 For decades the market asset and income approaches to business valuation have taken center stage in the assessment of the firm This book brings to light an expanded valuation toolkit consisting of nine well defined valuation principles hailing from the fields of economics finance accounting

taxation and management It ultimately argues that the value functional approach to business valuation avoids most of the shortcomings of its competitors and more correctly matches the actual motivations and information set held by stakeholders Much of what we know about corporate finance and mathematical finance derives from a narrow subset of firms publicly traded corporations The value functional approach can be readily applied to both large firms and companies that do not issue publicly traded stocks and bonds cannot borrow without constraints and often rely upon entrepreneurs to both finance and manage their operations With historical side notes from an international set of sources and real world exemplars that run throughout the text this book is a future facing resource for scholars in economics and finance as well as the academically minded valuation practitioner *PC Mag* ,1984-03-06 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Human Services Technology** Simon Slavin,Richard Schoech,1999-06-21 Featuring new and updated information on computer technologies including networking and using the Internet as a necessary tool for professionals Human Services Technology Understanding Designing and Implementing Computer and Internet Applications in the Social Services will help individual human service professionals and agencies understand design implement and manage computer and Internet applications Combining several relevant fields this informative guide provides you with the knowledge to effectively collect store manipulate and communicate information to better serve clients and successfully manage human service agencies Human Services Technology explains basic technological terms and gives you the history of technology uses before you explore other areas of Information Technology IT This essential guide will also improve your ability to find and understand recent research and information on important topics Human Services Technology will expand your technical know how and help you better serve clients by offering you proven methods and explanations such as describing terms such as hardware networking and telecommunications with easy to understand analogies and examples using IT applications to support social policies improve service coordination among agencies efficiently manage agencies in order to save time support workers decision making with information and assist clients solving the problems that internal and external issues cause when determining IT needs such as working with federal reporting requirements understanding and dealing with the 10 most critical IT issues for management Containing dozens of graphs tables and figures this knowledgeable book will help you with any IT problem you encounter Symbols by certain subjects in the book indicate that you can find more information and references on that issue through links on the book s accompanying Web site Human Services Technology will enable you to thoroughly understand and use IT to help you offer improved services to clients and manage agencies with increased efficiency and effectiveness *What If Classic – The Complete Collection Vol. 3* , Titanic tales of triumph and tragedy in the mighty Marvel tradition with a twist Overseen by the Watcher the most offbeat series of all revisited major Marvel moments asking the tantalizing question what if Imagine that a

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