

Chapter

5

Recursion

Hints and Solutions

Reinforcement

R-5.1) Hint When the algorithm finds a match, does it know where?

R-5.1) Solution

```
public static int binarySearch(int[] data, int target, int low, int high) {  
    if (low > high)  
        return -1; // failed search  
    else {  
        int mid = (low + high) / 2;  
        if (target == data[mid])  
            return mid; // index of found match  
        else if (target < data[mid])  
            return binarySearch(data, target, low, mid - 1);  
        else  
            return binarySearch(data, target, mid + 1, high);  
    }  
}
```

R-5.2) Hint This is probably the first power algorithm you were taught.

R-5.2) Solution

Java Manual Solution

**Conrad Bessant, Darren Oakley, Ian
Shadforth**



Java Manual Solution:

Student Solutions Manual for For All Practical Purposes COMAP,2008-12-26 Contains complete solutions to odd numbered problems in text *Solution manual to accompany* Samuel N. Kamin,M. Dennis Mickunas,Edward Martin Reingold,1998 *Effective Software Maintenance and Evolution* Stanislaw Jarzabek,2007-05-07 With software maintenance costs averaging 50% of total computing costs it is necessary to have an effective maintenance program in place Aging legacy systems for example pose an especially rough challenge as veteran programmers retire and their successors are left to figure out how the systems operate This book explores program analyzers reve **Sm Java Business I/M** Andrew C. Staugaard,1999 *Oracle Modernization Solutions* Tom Laszewski,Williamson, Jason,2008-09-19 This book combines case studies with practical examples of how to implement modernization techniques using Oracle and partner products to modernize to the Oracle Platform The book also weighs the pros and cons of specific modernization use cases Finally we explore some of the emerging trends in technology and how they apply to legacy modernization Legacy system architects project managers program managers developers database architects and decision makers who own mainframe and heterogeneous systems and are tasked with modernization will all find this book useful The book assumes some knowledge of mainframes J2EE SOA and Oracle technologies The reader should have some background in programming and database design *A Manual of Dyeing Receipts for General Use* James Napier,1875 **The JFC Swing Tutorial** Kathy Walrath,2004 Written by a lead writer on the Swing team and bestselling author of The Java Tutorial this guidebook now fully updated and revised provides a hard copy of Sun s popular online tutorial for JFC Swing development Its numerous code examples and clear presentation style make this book a fine choice for mastering the ins and outs of JFC and Swing

Transactions on Aspect-Oriented Software Development VI Shmuel Katz,Harold Ossher,2009-10-26 work for small problems but it introduces significant accidental complexities when tackling larger problems
Notethattherealchallengehereisnohowtodesignthesystemtotakeap ticular aspect into account there is significant design know how in industry on this and it is often captured in the form of design patterns Taking into account more than one aspect can be a little harder but many large scale successful projects in industry provide some evidence that engineers know how different concerns should be handled The real challenge is reducing the effort that the engineerhasto expendwhengrapplyingwithmanyinter dependentconcerns For example in a product line context when an engineer wants to replace a variant of an aspect used in a system she should be able to do this cheaply quickly and safely Manually weaving every aspect is not an option Unlike many models used in the sciences models in software and in lingu istics have the same nature as the things they model In software this provides an opportunity to automatically derive software from its model that is to automate the weaving process This requires models to be formal and the weaving process be described as a program i e an executable meta model manipulating models to produce a detailed design The detailed design produced by the weaving

process can ultimately be transformed to code or at least test suites **A Manual of Dyeing and Dyeing Receipts, Comprising a System of Elementary Chemistry, as Applied to Dyeing** James Napier, 1875 *Java* Harvey M. Deitel, 2003-04-10 [Java Software Solutions](#) John Lewis, William Loftus, 2004-11-11 The previous three editions have established Fluid Mechanics as the key textbook in its field This fourth edition continues to offer the reader an excellent and comprehensive treatment of the essentials of what is a truly cross disciplinary subject while also providing in depth treatment of selected areas This book is suitable for all students of civil mechanical chemical environmental and building services engineering The fourth edition retains the underlying philosophy of the previous editions guiding the reader from the general to the particular from fundamentals to specialist applications for a range of flow conditions from bounded to free surface and steady to time dependent The basic building block equations are identified and their development and application to problems of considerable engineering concern are demonstrated and discussed The fourth edition of Fluid Mechanics includes end of chapter summaries outlining all essential concepts an entirely new chapter on the simulation of unsteady flow conditions from free surface to air distribution networks enhanced treatment of dimensional analysis and similarity and an introduction to the fundamentals of CFD *Java Software Solutions* John Lewis, William Loftus, 2008-04-01

More Java Pitfalls Michael C. Daconta, Kevin T. Smith, Donald Avondolio, W. Clay Richardson, 2003-03-24 Building on the success of *Java Pitfalls* 0 471 36174 7 this book provides more specific programming solutions to fifty difficult Java programming problems Shows experienced programmers how to identify and avoid weaknesses in Java and related J2EE technologies that can cause programs to go haywire Explores advanced topics including networking XML and Java programming and the Java Virtual Machine **Generative and Transformational Techniques in Software Engineering II** Ralf Lämmel, Joost Visser, João Saraiva, 2008-10-08 The second instance of the international summer school on Generative and Transformational Techniques in Software Engineering GTTSE 2007 was held in Braga Portugal during July 2 7 2007 This volume contains an augmented selection of the material presented at the school including full tutorials short tutorials and contributions to the participants workshop The GTTSE summer school series brings together PhD students lecturers technology presenters as well as other researchers and practitioners who are interested in the generation and the transformation of programs data models metamodels documentation and entire software systems This concerns many areas of software engineering software reverse and re engineering model driven engineering automated software engineering generic language technology to name a few These areas differ with regard to the specific sorts of metamodels or grammars schemas formats etc that underlie the involved artifacts and with regard to the specific techniques that are employed for the generation and the transformation of the artifacts The first instance of the school was held in 2005 and its proceedings appeared as volume 4143 in the LNCS series **Java Software Solutions** Adrienne Bloss, N. Jane Ingram, 2002-11

Enterprise JavaBeans: Build Future-Proof Business Solutions with Java Pasquale De Marco, 2025-03-19 Enterprise

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