

## Chapter

# 5

## Recursion

### Hints and Solutions

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#### 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**

# Data Structure Solution Manual

**John Lewis, Joseph Chase**

## **Data Structure Solution Manual:**

**Solution Manual to Accompany Data Structures & Their Algorithms** Harry R. Lewis,Larry Denenberg,1991-01-01

**7 Algorithm Design Paradigms - Solution Manual** Sung-Hyuk Cha,2020-05-30 This solution manual is to accompany the book entitled 7 Algorithm Design Paradigms It is strongly recommended that students attempt the exercises without this solution manual in order to improve their knowledge and skills

**Solution Manual for Mechanics and Control of Robots** Krishna C. Gupta,1997-04-24 Intended as an introduction to robot mechanics for students of mechanical industrial electrical and bio mechanical engineering this graduate text presents a wide range of approaches and topics It avoids formalism and proofs but nonetheless discusses advanced concepts and contemporary applications It will thus also be of interest to practicing engineers The book begins with kinematics emphasizing an approach based on rigid body displacements instead of coordinate transformations it then turns to inverse kinematic analysis presenting the widely used Pieper Roth and zero reference position methods This is followed by a discussion of workplace characterization and determination One focus of the discussion is the motion made possible by spherical and other novel wrist designs The text concludes with a brief discussion of dynamics and control An extensive bibliography provides access to the current literature

**Laboratory Manual for Data Structures** Ronald E. Prather,1990 *Instructor's Manual with Test Bank to Accompany Elementary Data Structures with Pascal* Angela B. Shiflet,1990 **Data Structures in Pascal** Edward M. Reingold,Wilfred J. Hansen,1986 This is a revision of the authors 1982 volume into Pascal the language most widely used for teaching data structures Data structures are central to computer science and in particular to programming In the analytic areas

appropriate data structures have been the key to advances in the design of algorithms Once appropriate data structures are carefully defined all that remains is routine coding A comprehensive understanding of data structure techniques is essential in the design of algorithms and programs This text presents a carefully chosen fraction of available material but supplement it with a wide variety of exercises No single book can discuss all known data structures or algorithms This text presents the art of designing data structures preparing the student to devise special purpose structures for specific problems as they present themselves

**Java Software Structures** John Lewis,Joseph Chase,2013-03-01 Intended for use in the Java Data Structures course The fourth edition of Java Software Structures embraces the enhancements of the latest version of Java where all structures and collections are based on generics The framework of the text walks the reader through three main areas conceptualization explanation and implementation allowing for a consistent and coherent introduction to data structures Students learn how to develop high quality software systems using well designed collections and algorithms Teaching and Learning Experience To provide a better teaching and learning experience for both instructors and students this program will Apply Theory and or Research Three main areas conceptualization explanation and implementation allow for a consistent and coherent introduction to data structures Engage Students Hands on optional case studies and new

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