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# Data Structures And Algorithm Analysis In C++ 4th Edition

## Solution Manual

### CHAPTER 1

#### Introduction

```
1.1
/*
  Exercise 1.1
  Selection of integers with k = N/2
  select1 => sorting and selecting
  select2 => keeping top k
*/

#include <iostream>
#include <ctime>
#include <cmath>
#include <vector>
#include <algorithm>
using namespace std;

void sort(vector<int> & vec)
{ // bubble sort ascending
  bool sorted = false;
  while (!sorted)
  {
    sorted = true;
    for (auto i = 1; i < vec.size(); i++)
    {
      if (vec[i-1] > vec[i])
      {
        swap(vec[i], vec[i-1]);
        sorted = false;
      }
    }
  }
}

void sortDec(vector<int> & vec)
{ // bubble sort descending
  bool sorted = false;
  while (!sorted)
  {
    sorted = true;
    for (auto i = 1; i < vec.size(); i++)
    {
      if (vec[i-1] < vec[i])
      {
        swap(vec[i], vec[i-1]);
        sorted = false;
      }
    }
  }
}
```

# Data Structures And Algorithm Analysis Solution Manual

**Yicheng Fang**



## **Data Structures And Algorithm Analysis Solution Manual:**

*Solutions Manual for Data Structures and Algorithm Analysis in C++* Mark Allen Weiss,1994     [Solutions Manual to Accompany Data Structures and Algorithms with Object-Oriented Design Patterns in C++](#) Bruno R. Preiss,1998-07-01

**Data Structures and Algorithm Analysis** Mark Allen Weiss,1992 This text takes a modern approach to algorithms and data structures Emphasizing theory rather than code it highlights conceptual topics with a focus on ADTs and analysis of algorithms for efficiency In particular the concentration is on specific programming problems and how careful implementation will improve program running time Logically organized it presents topics in a manageable order Designed for students and professionals it is suitable for an advanced data structures course or a first year graduate course in algorithm analysis     [Data Structures and Algorithm Analysis](#) Mark Allen Weiss,1995 080539057XB04062001     **Data Structures**

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This book covers C Programming focussing on its practical side Volume 1 deals mainly with basic data structures algorithms and program statements An extensive use of figures and examples help to give a clear description of concepts help the reader to gain a systematic understanding of the language     *Solution Manual to Accompany Data Structures & Their Algorithms* Harry R. Lewis,Larry Denenberg,1991-01-01     *DATA STRUCTURE AND ALGORITHMS. MADE EASY GUIDE* . Harry. H. Chaudhary.,2014-06-02 Essential Data Structures Skills Made Easy This book gives a good start and Complete introduction for data structures and algorithms for Beginner s While reading this book it is fun and easy to read it This book is best suitable for first time DSA readers Covers all fast track topics of DSA for all Computer Science students and Professionals Data Structures and Other Objects Using C or C takes a gentle approach to the data structures course in C Providing an early text gives students a firm grasp of key concepts and allows those experienced in another language to adjust easily Flexible by

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structures preparing the student to devise special purpose structures for specific problems as they present themselves

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