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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

**Michael Rajnik**



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