Chapter 1: Algorithms: Efficiency, Analysis, and Order   Solutions

Section 1.1

1) Write an algorithm that finds the largest number in a list (an array) of n numbers.

Input: positive integer n, list of numbers S indexed from 1 to n

Output: the maximum element in the list S

```
number findMax(int n, const keytype S[ ]) {
    index i;
    number max = S[1];
    for(i = 2; i <= n; i++)
        if(S[i] > max)
            max = S[i];
    return max;
}
```

2) Write an algorithm that finds the m smallest numbers in a list of n numbers.

Input: positive integer n, list of numbers S indexed from 1 to n, empty list of numbers Small indexed from 1 to m.

Output: the list Small with the smallest m numbers in it.

```
void find_m_Smallest(int n, const keytype S[ ], keytype Small[]) {
    index i, j, k;
    Small[1] = S[1];
    for(i = 2; i <= n; i++) {
        if(j <= m)
            find index j where S[i] needs to be inserted in Small, such that\
                Small stays sorted in non-decreasing order;
        for(k = m-1; k >= j; k--)
            Small[k+1] = Small[k];          //shift right
        Small[j] = Small[i];                //insert S[i]
    }
}
```

[Solution Manual For Algorithms And Programming](#)

William Wallace White

Solution Manual For Algorithms And Programming:

The book delves into Solution Manual For Algorithms And Programming. Solution Manual For Algorithms And Programming is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Solution Manual For Algorithms And Programming, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 4: Solution Manual For Algorithms And Programming in Specific Contexts
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