

### 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] = S[i]; //insert S[i]  
    }  
}
```

# Foundations Of Algorithms 5th Edition Solution

**SB Merriam**

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