

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

Pauline H. Grewitz



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A Mathematical Theory of Design: Foundations, Algorithms and Applications D. Braha, O. Maimon, 2013-04-17 Formal Design Theory PDT is a mathematical theory of design The main goal of PDT is to develop a domain independent core model of the design process The book focuses the reader's attention on the process by which ideas originate and are developed into workable products In developing PDT we have been striving toward what has been expressed by the distinguished scholar Simon 1969 that the science of design is possible and some day we will be able to talk in terms of well established theories and practices The book is divided into five interrelated parts The conceptual approach is presented first Part I followed by the theoretical foundations of PDT Part II and from which the algorithmic and pragmatic implications are deduced Part III Finally detailed case studies illustrate the theory and the methods of the design process Part IV and additional practical considerations are evaluated Part V The generic nature of the concepts theory and methods are validated by examples from a variety of disciplines FDT explores issues such as algebraic representation of design artifacts idealized design process cycle and computational analysis and measurement of design process complexity and quality FDT's axioms convey the assumptions of the theory about the nature of artifacts and potential modifications of the artifacts in achieving desired goals or functionality By being able to state these axioms explicitly it is possible to derive theorems and corollaries as well as to develop specific analytical and constructive methodologies

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Foundations of Algorithms Richard Neapolitan, Kumarss Naimipour, 2009-12-28

Practical Genetic Algorithms Randy L. Haupt, Sue Ellen Haupt, 2004-05-31 Randy Haupt and Sue Ellen Haupt both affiliated with The Pennsylvania State University Applied Research Laboratory emphasize practical applications rather than theory in this second edition of a book CD ROM guide for practicing scientists engineers economists artists and others interested in the basics of genetic algorithms GAs This edition contains code in both MATLAB and High Performance Fortran on the CD ROM plus expanded information on methods for improving GA performance and a new chapter on other artificial intelligence methods of optimization such as simulated annealing and ant colony optimization Chapter exercises allow the book to be used as a text Annotation 2004 Book News Inc Portland OR booknews.com

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