

Program 11 Design and implement C/C++ Program to sort a given set of n integer elements using Merge Sort method and compute its time complexity. Run the program for varied values of n> 5000, and record the time taken to sort. Plot a graph of the time taken versus n. The elements can be read from a file or can be generated using the random number generator.

Mergesort

```
# include <stdio.h>
# include <conio.h>
#include<time.h>
void Merge(int a[], int low, int mid, int high)
{
    int i, j, k, b[500];
    i=low; j=mid+1; k=low;
    while ( i<=mid && j<=high )
    {
        if( a[i] <= a[j] )
            b[k++] = a[i++] ;
        else
            b[k++] = a[j++] ;
    }
    while (i<=mid)
        b[k++] = a[i++] ;
    while (j<=high)
        b[k++] = a[j++] ;
    for(k=low; k<=high; k++)
        a[k] = b[k];
}
void MergeSort(int a[], int low, int high)
{
    int mid;
    if(low >= high)
        return;
    mid = (low+high)/2 ;
    MergeSort(a, low, mid);
    MergeSort(a, mid+1, high);
    Merge(a, low, mid, high);
}
void main()
{
    int n, a[500],k;
    clock_t st,et;
    double ts;
    clrscr();
    printf("\n Enter How many Numbers:");
    scanf("%d", &n);
```

Design And Analysis Of Algorithm Solution Manual

Anany Levitin



Design And Analysis Of Algorithm Solution Manual:

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36th Aerospace Sciences Meeting & Exhibit, 1998 **Expert Systems in Government Symposium, October 22-24, 1986, Tysons Westpark Hotel, McLean, Virginia** Kamal N. Karna, 1986 *S.A.E. Transactions* Society of Automotive Engineers, 1966 Vols for include index which has title SAE transactions and literature developed Journal of Mechanical Design, 1980 **Proceedings of the ... Congress on Evolutionary Computation**, 2000 **Introduction to the Design and Analysis of Algorithms** Anany Levitin, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Based on a new classification of algorithm design techniques and a clear delineation of analysis methods Introduction to the Design and Analysis of Algorithms presents the subject in a coherent and innovative manner Written in a student friendly style the book emphasizes the understanding of ideas over excessively formal treatment while thoroughly covering the material required in an introductory algorithms course Popular puzzles are used to motivate students interest and strengthen their skills in algorithmic problem solving Other learning enhancement features include chapter summaries hints to the exercises and a detailed solution manual

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Government Reports Announcements & Index, 1978

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Journal of Design Automation & Fault-tolerant Computing, 1976

Computational Engineering Using Metaphors from Nature B. H. V. Topping, 2000 Contains a selection of papers presented at The Fifth International Conference on Computational Structures

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