

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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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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Table of Contents Design And Analysis Of Algorithm Solution Manual

1. Understanding the eBook Design And Analysis Of Algorithm Solution Manual
 - The Rise of Digital Reading Design And Analysis Of Algorithm Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Design And Analysis Of Algorithm Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Design And Analysis Of Algorithm Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Design And Analysis Of Algorithm Solution Manual
 - Personalized Recommendations

- Design And Analysis Of Algorithm Solution Manual User Reviews and Ratings
- Design And Analysis Of Algorithm Solution Manual and Bestseller Lists

5. Accessing Design And Analysis Of Algorithm Solution Manual Free and Paid eBooks

- Design And Analysis Of Algorithm Solution Manual Public Domain eBooks
- Design And Analysis Of Algorithm Solution Manual eBook Subscription Services
- Design And Analysis Of Algorithm Solution Manual Budget-Friendly Options

6. Navigating Design And Analysis Of Algorithm Solution Manual eBook Formats

- ePUB, PDF, MOBI, and More
- Design And Analysis Of Algorithm Solution Manual Compatibility with Devices
- Design And Analysis Of Algorithm Solution Manual Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Design And Analysis Of Algorithm Solution Manual
- Highlighting and Note-Taking Design And Analysis Of Algorithm Solution Manual
- Interactive Elements Design And Analysis Of Algorithm Solution Manual

8. Staying Engaged with Design And Analysis Of Algorithm Solution Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Design And Analysis Of Algorithm Solution Manual

9. Balancing eBooks and Physical Books Design And Analysis Of Algorithm Solution Manual

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Design And Analysis Of Algorithm Solution Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Design And Analysis Of Algorithm Solution Manual

- Setting Reading Goals Design And Analysis Of Algorithm Solution Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Design And Analysis Of Algorithm Solution Manual

- Fact-Checking eBook Content of Design And Analysis Of Algorithm Solution Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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