

**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);
```

# Algorithm Analysis And Design Lab Manual

**RJ Alexander**



## **Algorithm Analysis And Design Lab Manual:**

## **Algorithm Analysis And Design Lab Manual** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algorithm Analysis And Design Lab Manual**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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