

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);
```

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Arturo Cuomo



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