

```

enter value of n - no of elements
7
enter values into the array
45 36 15 92 35 71 83
after merge sort :
15-->35-->36-->45-->71-->83-->92-->

---Time taken for different values of N---
time taken by 500 elements = 0.000133 secs
time taken by 1500 elements = 0.000157 secs
time taken by 2500 elements = 0.000279 secs
time taken by 3500 elements = 0.000644 secs
time taken by 4500 elements = 0.000559 secs
time taken by 5500 elements = 0.000963 secs
time taken by 6500 elements = 0.000984 secs
time taken by 7500 elements = 0.000911 secs
time taken by 8500 elements = 0.001028 secs
time taken by 9500 elements = 0.001094 secs
time taken by 10500 elements = 0.001116 secs
time taken by 11500 elements = 0.001180 secs
time taken by 12500 elements = 0.001294 secs
time taken by 13500 elements = 0.001421 secs

```

