**Merge Sort**

int arr[1000];

srand(0);

int i,k;

int size=10000;

for(k=0;k<10;k++)

{

size+=1000;

for(i=0;i<size;i++)

{

arr[i]=rand();

}

t1=clock();

printf("%f",(((float)(t1)/1000000.0F)\* 1000));

int n = sizeof(arr)/sizeof(arr[0]);

insertionSort(arr,n);

t2=clock();

printf("%f\n",(((float)(t2)/1000000.0F)\* 1000));

x=((float)(t2-t1)/1000000.0F)\* 1000;

printf("Time taken for %d elements is %f",size,x);

}

}