**public** **class** MergeSort {

**static** **int**[] *arr*={38,27,43,3,9,82,10};

**static** **void** sort(**int**[] arr,**int** start, **int** end)

{

**for**(**int** i=start;i<=(end-1);i++)

{

**if**(arr[i]>arr[i+1])

{

**int** temp=arr[i];

arr[i]=arr[i+1];

arr[i+1]=temp;

**if**(i>=2)

i=i-2;

}

}

}

**static** **void** merge(**int**[] arr,**int** start, **int** end)

{

**int** mid=(start+end)/2;

**if**(start<end)

{

*merge*(arr, start, mid);

*merge*(arr, mid+1, end);

*sort*(arr, start, end);

}

}

**public** **static** **void** main(String[] args)

{

//arr=;

**int** length=*arr*.length;

*merge*(*arr*,0,length-1);

**for**(**int** i=0;i<*arr*.length;i++)

{

System.***out***.println(*arr*[i]);

}

}

}