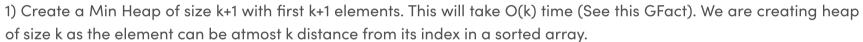


## Sort K-Sorted Array

We can sort such arrays **efficiently with the help of Heap data structure**. Following is the detailed process that uses Heap.

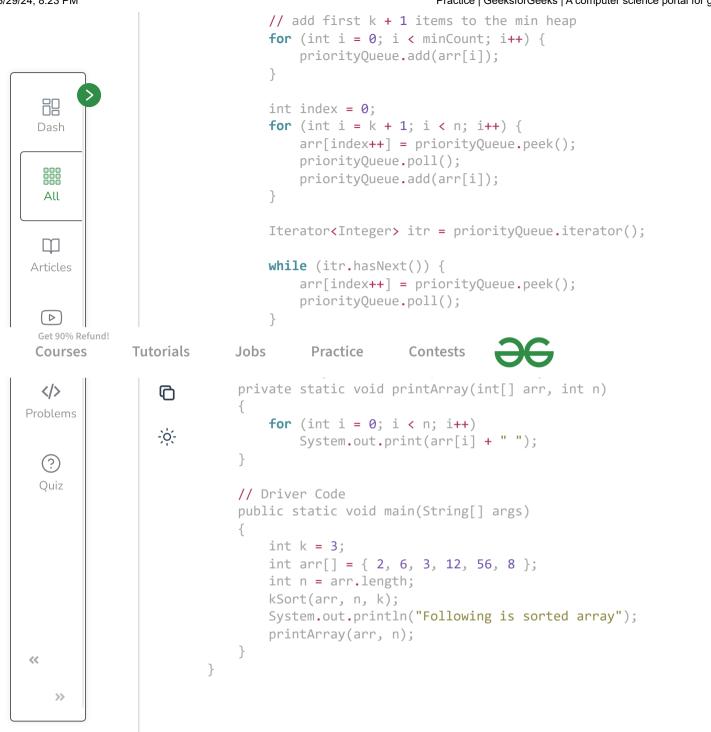




2) One by one remove min element from heap, put it in result array, and add a new element to heap from remaining elements.



Removing an element and adding a new element to min heap will take log k time. So overall complexity will be O(k) + O((n-k) \* log(k)).







F



```
// This code is contributed by // Manpreet Singh(manpreetsngh294)
```

## Output

Following is sorted array 2 3 6 8 12 56

Time Complexity: O(k) + O((m) \* log(k)), where m = n - k

**Auxiliary Space:** O(k)





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