

# How to Sort a nearly Sorted Array

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```
import heapq

def sortNearlySortedArray(arr, k):
    heap = []
    ans = []
    for i in range(k + 1):
        heapq.heappush(heap, arr[i])
    for j in range(k + 1, len(arr)):
        ans.append(heapq.heappop(heap))
        heapq.heappush(heap, arr[j])
    while len(heap):
        ans.append(heapq.heappop(heap))

    return ans

arr = [2, 3, 1, 4, 6, 7, 5, 8, 9]
print(sortNearlySortedArray(arr, 2))
```