K-th Element of Two Sorted Arrays

Given two sorted arrays **arr1** and **arr2** of size **M** and **N** respectively and an element **K**. The task is to find the element that would be at the k'th position of the final sorted array.

Example 1:

Input:
arr1[] = {2, 3, 6, 7, 9}
arr2[] = {1, 4, 8, 10}
k = 5
Output:
6
Explanation:
The final sorted array would be -
1, 2, 3, 4, 6, 7, 8, 9, 10
The 5th element of this array is 6.

Example 2:

Input:
arr1[] = {100, 112, 256, 349, 770}
arr2[] = {72, 86, 113, 119, 265, 445, 892}
k = 7
Output:
256
Explanation:
Final sorted array is - 72, 86, 100, 112,
113, 119, 256, 265, 349, 445, 770, 892
7th element of this array is 256.

```
def kthElement(self,  arr1, arr2, n, m, k):
        i = n-1
        j = 0
        while i>=0 and j<m:
            if arr1[i]>arr2[j]:
                arr1[i],arr2[j] = arr2[j],arr1[i]
            i = i-1
            j = j+1

        arr1.sort()
        arr2.sort()
```

```
        if k>n:
            return arr2[k-n-1]
        else:
            return arr1[k-1]
```