믦

Dash





Articles



Videos





Difficulty: Medium Accuracy: 37.4%

K-th element of two Arrays □

Submissions: 308K+

Points: 4

Given two sorted arrays a[] and b[] and an element k, the task is to find the element that would be at the k^{th} position of the combined sorted array.

Examples:

Input: a[] = [2, 3, 6, 7, 9], b[] = [1, 4, 8, 10], k = 5

Output: 6

Explanation: The final combined sorted array would be [1, 2, 3, 4, 6, 7, 8, 9, 10]. The 5th element of this array is 6.

Input: a[] = [100, 112, 256, 349, 770], b[] = [72, 86, 113, 119, 265, 445,

892], k = 7

Output: 256

Explanation: Combined sorted array is [72, 86, 100, 112, 113, 119, 256,

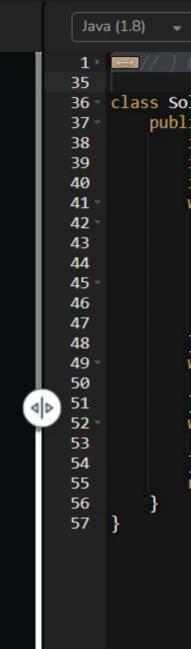
265, 349, 445, 770, 892]. The 7th element of this array is 256.

Constraints:

Next >>

« Prev

• 1 <= a.size(), b.size() <= 10⁶



```
1) | // | Driver Code Ends
36 class Solution {
        public int kthElement(int a[], int b[], int k) {
            int n = a.length , m = b.length;
            int[] arr = new int[n + m];
            int i = 0, j = 0, d = 0;
            while(i < n && j < m){
                if(a[i] < b[j]){
                    arr[d++] = a[i++];
                else{
                    arr[d++] = b[j++];
           while (i < n){
                arr[d++] = a[i++];
            while (j < m){
                arr[d++] = b[j++];
           return arr[k - 1];
```

Average Time: 15m

Start Timer

日 日 ② U X