



```
1 // } Driver Code Ends
```

Kth element of two sorted Arrays ☐

K-th element of two sorted Arrays  

Medium Accuracy: 50.09% Submissions: 27461 Points: 4

```
10.     {
11         if(n>m)
```

Given two sorted arrays **arr1** and **arr2** of size **N** and **M** 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

```
15     left = max(0, k - m), right = min(m, k),
16     i, j = left, right
17     while i < j:
```

```
Example 1:
17 while(low<=high)
18 {
```

```

19     int cut1 = (low+high) >> 1;
20     int cut2=k - cut1;

```

```
arr1[] = {2, 3, 6, 7, 9}
```

```
arr2[] = {1, 4, 8, 10}
```

```

24     int r2 = cut2 == m ? INT_MAX : arr2[cut2];
25

```

```

26         if(11 <= r2 && 12 <= r1)
27         {

```

Explanation: 

```
28         return max(l1,l2);
29     }
```

The final sorted array would be -

```
31-         {
32-             high=cut1-1;
```

```
33     }
34     else
```

Example 2:

Input: Output Window: Average Time: 15m Your Time: 10m Compile & Run Submit

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