https://course.acciojob.com/idle?question=e91d4630-173f-443e-96d1-82c474a8a3a2

- HARD
- Max Score: 50 Points

K-th element of two sorted Arrays

Given two sorted arrays arr1 and arr2 of size N and M respectively and an element κ , the task is to find the element that would be at the kth position of the final sorted array.

Input Format

- First line of input contains two integers N and M.
- Second line contains N spaced integers elements of arr1.
- Third line contains M spaced integers elements of arr2.
- Last line contains the integer k.

Output Format

Print the element that occurs at the kth position in the sorted array of the combination of arr1 and arr2.

Example 1

```
Input
```

5 4 2 3 6 7 9 1 4 8 10 5

Output

6

Explanation The final sorted array would be -

```
1, 2, 3, 4, 6, 7, 8, 9, 10
```

The element at the 5th position is 6.

Example 2

Input

2 1

0 2

2

Output

1

Explanation The final sorted array would be -

0, 1, 2

The element at the 2nd position is 1.

Constraints

- 1 <= N, M <= 10^6
- 1 <= arr1[i], arr2[i] < INT_MAX
- 1 <= K <= N+M

Topic Tags

Arrays

My code

```
import java.util.*;
import java.lang.*;
import java.io.*;
```

```
public class Main
{
        public static void main (String[] args) throws java.lang.Exception
       {
                //your code here
          Scanner s=new Scanner(System.in);
          int n=s.nextInt();
          int m=s.nextInt();
                int arr[]=new int [n];
          int arb[]=new int [m];
          for(int i=0;i< n;i++)
          arr[i]=s.nextInt();
            for(int i=0;i< m;i++)
          arb[i]=s.nextInt();
          int t=s.nextInt();
          int ar[]=new int [m+n];
          for(int i=0;i< n;i++)
                ar[i]=arr[i];
           for(int i=n;i<n+m;i++)</pre>
                ar[i]=arb[i-n];
          Arrays.sort(ar);
          System.out.print(ar[t-1]);
     }
}
```