

Given an array **arr[]** and a number **K** where K is smaller than size of array, the task is to find the **Kth smallest** element in the given array. It is given that all array elements are distinct.

Example 1:

Input:

N = 6

arr[] = 7 10 4 3 20 15

K = 3

Output : 7

Explanation :

3rd smallest element in the given array is 7.

Example 2:

Input:

N = 5

arr[] = 7 10 4 20 15

K = 4

Output : 15

Explanation :

4th smallest element in the given array is 15.

Your Task:

You don't have to read input or print anything. Your task is to complete the function **kthSmallest()** which takes the array, it's size and an integer k as input and returns the kth smallest element.

Expected Time Complexity: O(n)

Expected Auxiliary Space: O(1)

Constraints:

$$1 \leq N \leq 10^5$$

$$1 \leq \text{arr}[i] \leq 10^5$$

$$1 \leq K \leq N$$