# Kth largest element

#### Send Feedback

Given an array A of random integers and an integer k, find and return the kth largest element in the array.

Note: Try to do this question in less than O(N \* logN) time.

### **Input Format:**

The first line of input contains an integer, that denotes the value of the size of the array. Let us denote it with the symbol N.

The following line contains N space separated integers, that denote the value of the elements of the array.

The following contains an integer, that denotes the value of k.

### **Output Format:**

The first and only line of output contains the kth largest element

### **Constraints:**

1 <= N, Ai, k <= 10^5 Time Limit: 1 sec

### Sample Input 1:

6

9 4 8 7 11 3

2

### Sample Output 1:

a

## Sample Input 2:

8

2 6 10 11 13 4 1 20

4

### Sample Output 2:

10