#Problem 1: Height of the students

Description:
You will be dealing with the heights of the students here. First, you will be given an integer value N denoting the number of students in the class. Then you will be given N numbers (can be floating point numbers) denoting the *height* of each student in some unit. The i^{th} number will denote the *height* of the i^{th} student. After that you will be given a value K.

In the assembly students are arranged from the smallest to largest height. You have to print the roll which will be standing in the K^{th} position in such an arrangement. The rolls follow 1 based indexing. In the case of repeating heights, you need to print the student with a lesser roll.

Limits:
1<=N<=100000
1<=k<=100000
100 <= height <= 5000

Test Cases:

Input	Output
5 100 105.3 500.7 200.3 161 3	5
4 205.1 181.2 173.7 181.2 2	2

#Problem 2: Min Distance between the points of 1D coordinates

Description:
You will be given N, 1D co-ordinates lying in the number line. You have to print the absolute minimum distance found between two given coordinates.

Limits:
1<=N<=100000

Test Cases:

Input	Output
5 7 10 9 -5 5	1

5 10 -15 15 12 3	2

#Problem 3: Finding Majority Element - 1

Description:
In this problem, you will be given N numbers. You need to find the element which occurred maximum number of times. If there are ties in frequencies, return the element which is comparatively greater.
In the first line, you will be given an integer N. In the following line, you will be given N integer values A_i (1<=i<=N).
For each input there will be a single line of output. Printing the element with the maximum number of occurrences. For ties in occurrences, print the element with the maximum value.

Limits:
1<=N<=100000, -10^5 <= A_i <= 10^5

Test Cases:

Input	Output
6 5 3 2 3 2 1	3
7 5 1 2 3 3 2 2	2