UG - 2 Carnival

Time limit: 2 seconds
Memory limit: 15 MB

The Felicity season is around and so is the festive atmosphere around the campus. This year, the FCs planned a UG-2 carnival for which they settled at *'n'* number of stalls which would be set up in the carnival. At the end of the fest, each stall will have some earnings, hopefully.

Junaid, being one of the biggest misers of the campus wants all the data of the earnings with him, and for some unknown reason, he wants to know the "**Kth lowest earning!**" Your task is to help the FCs in finding the kth lowest earning.

Input format:

First line will contain the number of test cases. For each test case, first line will contain two integers, n and k - where 'n' denotes the number of stalls and k denotes the constraint. Next line will contain n integers denoting the earnings of each stall.

Output format:
Print the kth lowest earning.

Constraints:
1 <= Test Cases <= 100
1 <= N <= 100000
1 <= K <= N
The earning of the stalls will be in the range: 0 <= Earning <= 10^9

Sample input:
3
5 3
1 3 6 9 12
4 2
1 969 21 36
5 1
1 999 1222 12 55

Sample output:
6
21
1