Smallest number repeating K times

Given an array of size n, the goal is to find out the smallest number that is repeated exactly 'k' times.

Input:
First line consists of T test cases. First line of every test cases consists of 2 integers N and K. Second line of consists of every test case consists of array elements

Output:
Single line output, print the smallest number to be reapeted k times, else print -1.

Constraints:
1<=T<=100
1<=N<=1000

Example:
Input:
2
5 2
1 2 2 1 1
5 2
1 1 1 2 3
Output:
2
-1