**Smallest number repeating K times**

Submissions: [2668](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2477)  Accuracy:

29.91%

   Difficulty: [Basic](https://practice.geeksforgeeks.org/Basic/0/0/)   Marks: 1

Show Topic Tags   

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

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/smallest-number-repeating-k-times/0#ExpectOP) option \*\*

Contributor: Saksham Raj Seth  
[Author: saksham seth](https://auth.geeksforgeeks.org/user/saksham%20seth/practice/)

<https://practice.geeksforgeeks.org/problems/smallest-number-repeating-k-times/0>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp3

{

class Program

{

static int SmallestRepeatedKTimes(int[] a, int k)

{

Dictionary<int, int> dic =

new Dictionary<int, int>();

for (int i = 0; i < a.Length; i++)

{

if (dic.ContainsKey(a[i])) dic[a[i]]++;

else dic[a[i]] = 1;

}

int smallest = int.MaxValue;

foreach(KeyValuePair<int, int> kvp in dic)

{

if(kvp.Value == k)

{

if(kvp.Key < smallest)

{

smallest = kvp.Key;

}

}

}

if (smallest == int.MaxValue) return -1;

return smallest;

}

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

string[] input = Console.ReadLine().Trim().Split(' ');

int n = int.Parse(input[0]);

int k = int.Parse(input[1]);

int[] arr = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => int.Parse(e));

Console.WriteLine(SmallestRepeatedKTimes(arr, k));

}

Console.ReadLine();

}

}

}