**K-th distinct element**

Submissions: [589](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2141)  Accuracy:

33.95%

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

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Given an array of N integers, write a program to print K-th distinct element in the array. The given array may contain duplicates and the output should print K-th element among all unique elements. If K is more than number of distinct elements, print -1.

**Input:**  
First line of input contains a single integer T which denotes the number of test cases. First line of each test case contains two space separated integers N and K. Second line of each test case contains N space separated integers.  
**Output:**  
For each test case, print the K-th distinct element as described above.  
  
**Constraints:**  
1<=T<=100  
1<=N<=100000  
1<=K<=100  
  
**Example:**  
**Input:**  
3  
6 2  
1 2 1 3 4 2  
6 3  
1 2 50 10 20 2  
4 2  
2 2 2 2  
**Output:**  
4  
10  
-1

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

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<https://practice.geeksforgeeks.org/problems/k-th-distinct-element/0>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

static void MostrarKthDistinct(int[] arr, int k)

{

Dictionary<int, int> dic = new Dictionary<int, int>();

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

{

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

else dic[arr[i]] = 1;

}

bool flag = false;

int cont = 1;

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

{

if(dic[arr[i]] == 1)

{

if(cont == k)

{

Console.WriteLine(arr[i]);

flag = true;

break;

}

cont++;

}

}

if(flag == false)

{

Console.WriteLine("-1");

}

}

static void Main(string[] args)

{

//int[] arr = { 1, 2, 50, 10, 20, 2 };

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

MostrarKthDistinct(A, k);

}

Console.ReadLine();

}

}

}