**Print K smallest elements in their original order**

Submissions: [2148](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2869)  Accuracy:

10.79%

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

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Given an array, the task is to print K smallest elements from the array but they must be in the same order as they are in given array.

**Input:**  
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case consists of two lines. First line of each test case contains two Integers N and K and the second line contains N space separated elements.

**Output:**  
For each test case, print the K smallest elements in new line.

**Constraints:**  
1<=T<=100  
1<=K<=N<=106  
1<=A[i]<=105

**Example:  
Input:**  
2  
5 2  
5 4 2 1 2  
7 5  
1 2 3 4 5 6 7  
**Output:**  
2 1  
1 2 3 4 5

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/print-k-smallest-elements-in-their-original-order/0#ExpectOP) option \*\*

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<https://practice.geeksforgeeks.org/problems/print-k-smallest-elements-in-their-original-order/0>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

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

{

int MAX = 10;

int[] count = new int[MAX+1];

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

{

count[arr[i]]++;

}

int[] prkord = new int[MAX+1];

int ind = 0;

for (int i = 0; i < MAX+1; i++)

{

for (int j = 0; j < count[i]; j++)

{

if (ind >= k) break;

prkord[i]++;

ind++;

}

if (ind >= k) break;

}

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

//{

// Console.Write(prkord[i] + " ");

//}

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

{

if (prkord[arr[i]] > 0)

{

Console.Write(arr[i] + " ");

prkord[arr[i]]--;

}

}

Console.WriteLine();

}

static void Main(string[] args)

{

//int[] arr = { 5, 4, 2, 1, 2 };

//PrintKthSmallest(arr, 3);

//int[] arr = { 5, 7, 5, 5, 1, 2, 2 };

//PrintKthSmallest(arr, 4);

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

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));

PrintKthSmallest(arr, k);

}

Console.ReadLine();

}

}

}