**6 kyu**

**Highest Rank Number in an Array**

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C#

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Write a method highestRank(arr) (or highest-rank in clojure) which returns the number which is most frequent in the given input array (or ISeq). If there is a tie for most frequent number, return the largest number of which is most frequent.

Example:

var arr = new int[] { 12, 10, 8, 12, 7, 6, 4, 10, 12 };

Kata.HighestRank(arr) //=> returns 12

arr = new int[] { 12, 10, 8, 12, 7, 6, 4, 10, 12, 10 };

Kata.HighestRank(arr) //=> returns 12

var arr = new int[] { 12, 10, 8, 8, 3, 3, 3, 3, 2, 4, 10, 12, 10 };

Kata.HighestRank(arr) //=> returns 3

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int HighestRank(int[] arr)

{

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

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

{

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

else frec[arr[i]] = 1;

}

int max\_frec = 0;

int num\_max\_frec = 0;

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

{

if(kvp.Value > max\_frec)

{

max\_frec = kvp.Value;

num\_max\_frec = kvp.Key;

}

else if(kvp.Value == max\_frec)

{

if(kvp.Key > num\_max\_frec)

{

num\_max\_frec = kvp.Key;

}

}

}

return num\_max\_frec;

}

static void Main(string[] args)

{

int[] arr = new int[] { 12, 10, 8, 12, 7, 6, 4, 10, 12 };

Console.WriteLine(HighestRank(arr));

Console.ReadLine();

}

}

}