**7 kyu**

**Mean vs. Median**

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C#

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Your goal is to implement the method **meanVsMedian** which accepts an *odd-length* array of integers and returns one of the following:

* 'mean' - in case **mean** value is **larger than** median value
* 'median' - in case **median** value is **larger than** mean value
* 'same' - in case both mean and median share the **same value**

Reminder: [Median](https://en.wikipedia.org/wiki/Median)

Array will always be valid (odd-length >= 3)

<https://www.codewars.com/kata/mean-vs-median/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

//static void ranks(int[] a)

//{

//}

public static double GetMedian(double[] sourceNumbers)

{

//Framework 2.0 version of this method. there is an easier way in F4

if (sourceNumbers == null || sourceNumbers.Length == 0)

throw new System.Exception("Median of empty array not defined.");

//make sure the list is sorted, but use a new array

double[] sortedPNumbers = (double[])sourceNumbers.Clone();

Array.Sort(sortedPNumbers);

//get the median

int size = sortedPNumbers.Length;

int mid = size / 2;

double median = (size % 2 != 0) ? (double)sortedPNumbers[mid] : ((double)sortedPNumbers[mid] + (double)sortedPNumbers[mid - 1]) / 2;

return median;

}

public static string MeanVsMedian(int[] numbers)

{

double[] d = Array.ConvertAll(numbers, e => double.Parse(e.ToString()));

//Array.Sort(numbers);

double n = numbers.Length;

//double mediana = numbers[(int)(Math.Ceiling(n / 2.0))];

double mediana = GetMedian(d);

double promedio = numbers.Sum() / n;

if (mediana > promedio)

{

return "median";

}

else if (promedio > mediana)

{

return "mean";

}

return "same";

}

static void Main(string[] args)

{

//Assert.AreEqual("median",

Console.WriteLine(MeanVsMedian(new int[] { 7, 14, -70 }));

Console.ReadLine();

}

}

}