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https://codefights.com/img/coins_new.png2000

In an old village, people work with numbers in a very strange way. To compare two positive integers, they compare their digits from right to left until they differ. The number which has the greatest digit at that position is considered bigger than another one.

For example, 29 > 10331 because 9 > 1, and 45 < 145 because 45 can be written as 045 and 0 < 1.

You are given an array of pairwise distinct positive integers. Find the kth (1-based) number of that array after it is sorted by the people of the old village.

**Example**

For numbers = [10,20,9,10000] and k = 4, the output should be  
StrangeCompare(numbers, k) = 9.

The sorted array of numbers equals [10000, 10, 20, 9], and its 4th element equals 9.

* **[input] array.integer numbers**

Array of no more than 100 unique integers, each of which consists of no more than 6digits.

* **[input] integer k**

It guaranteed that 1 ≤ k ≤ numbers.length.

* **[output] integer**

The kth element of the sorted array.

<https://codefights.com/challenge/Nh8aGXHBeLTrn8bRi>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static string comparar(string a, string b)

{

int i = a.Length - 1, j = b.Length - 1;

while (i >= 0 && j >= 0)

{

if (int.Parse(a[i].ToString()) > int.Parse(b[j].ToString()))

{

return a;

}

else if (int.Parse(b[j].ToString()) > int.Parse(a[i].ToString()))

{

return b;

}

i--;

j--;

}

if (i >= 0) return a;

return b;

}

static int StrangeCompare(int[] numbers, int k)

{

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

{

for (int j = i + 1; j < numbers.Length; j++)

{

if ( comparar(numbers[i].ToString(), numbers[j].ToString()) == numbers[i].ToString())

{

int temp = numbers[i];

numbers[i] = numbers[j];

numbers[j] = temp;

}

}

}

foreach (int elem in numbers)

{

Console.Write(elem + " ");

}

return numbers[k];

}

static void Main(string[] args)

{

int [] num = {10,20,9,10000};

StrangeCompare(num, 4);

Console.ReadLine();

}

}

}