**Sort an array by value and index**

Your task is to sort an array of integer numbers by the product of the value and the index of the positions.   
  
For sorting the index starts at 1, NOT at 0!  
The sorting has to be ascending.  
The array will never be null and will always contain numbers.   
  
Example:

Input: 23, 2, 3, 4, 5

Product of value and index:

23 => 23 \* 1 = 23 -> Output-Pos 4

2 => 2 \* 2 = 4 -> Output-Pos 1

3 => 3 \* 3 = 9 -> Output-Pos 2

4 => 4 \* 4 = 16 -> Output-Pos 3

5 => 5 \* 5 = 25 -> Output-Pos 5

Output: 2, 3, 4, 23, 5

Have fun coding it and please don't forget to vote and rank this kata! :-)

I have also created other katas. Take a look if you enjoyed this kata!

ALGORITHMS

BASIC LANGUAGE FEATURES

FUNDAMENTALS

ARRAYS

NUMBERS

[Poweredby_qualified](http://www.qualified.io/?utm_source=codewars&utm_medium=web)

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

public static int[] SortByValueAndIndex(int[] array)

{

long[] prod = new long[array.Length];

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

{

prod[i] = (i + 1) \* array[i];

}

// Array.Sort( prod , array);

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

{

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

{

if (prod[i] > prod[j])

{

long temp = prod[i];

prod[i] = prod[j];

prod[j] = temp;

int t2 = array[i];

array[i] = array[j];

array[j] = t2;

}

}

}

return array;

}

static void Main(string[] args)

{

int[] Input = { 23, 2, 3, 4, 5 };

foreach (int elem in SortByValueAndIndex(Input))

{

Console.Write(elem + " ");

}

Console.ReadLine();

}

}

}