**7 kyu**

**Product of Largest Pair**

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C#

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Rick wants a faster way to get the product of the largest pair in an array. Your task is to create a **performant** solution to find the product of the largest two integers in a **unique** array of **positive** numbers.  
All inputs will be valid.  
Passing [2, 6, 3] should return 18, the product of [6, 3].

Disclaimer: Mr. Roll will only accept solutions that are faster than his, which has a running time O(nlogn).

Kata.MaxProduct(new int[] { 2, 1, 5, 0, 4, 3 }); // 20

Kata.MaxProduct(new int[] { 7, 8, 9 }) ; // 72

Kata.MaxProduct(new int[] { 33, 231, 454, 11, 9, 99, 57 }); // 104874

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

//static int find\_min\_max\_product(int[] arr, int k)

//{

// //# your code here

// Array.Sort(arr);

//}

public static int MaxProduct(int[] array)

{

int first = int.MinValue, second = int.MinValue;

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

{

if(array[i] > first)

{

second = first;

first = array[i];

}

else if(array[i] > second)

{

second = array[i];

}

}

return first \* second;

}

static void Main(string[] args)

{

//Assert.AreEqual(218842,

//Kata.

Console.WriteLine( MaxProduct(new int[] { 56, 335, 195, 443, 6, 494, 252 }));

Console.ReadLine();

}

}

}