**7 kyu**

**Find factors of a number**

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C#

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Create a function that takes a number and finds the factors of it, listing them in **descending** order in an **array**.

If the parameter is not an integer or less than 1, return -1. In C# return an empty array.

For Example: factors(54) should return [54, 27, 18, 9, 6, 3, 2, 1]

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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[] Factors(int num)

{

List<int> div = new List<int>();

for (int i = 1; i \* i <= num; i++)

{

if (num % i == 0)

{

div.Add(i);

if (num / i != i)

{

//div.Add(num / i);

div.Add( num / i);

}

}

}

div.Sort();

div.Reverse();

return div.ToArray();

}

static void Main(string[] args)

{

foreach(int item in Factors(54))

{

Console.Write(item + " ");

}

Console.ReadLine();

}

}

}