**6 kyu**

**Make the Deadfish swim.**

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C#

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Write a simple parser that will parse and run Deadfish.

Deadfish has 4 commands, each 1 character long:

* i increments the value (initially 0)
* d decrements the value
* s squares the value
* o outputs the value into the return array

Invalid characters should be ignored.

Deadfish.Parse("iiisdoso") => new int[] {8, 64};

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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[] Parse(string data)

{

// Return the output array, and ignore all non-op characters

//i increments the value(initially 0)

//d decrements the value

//s squares the value

//o outputs the value into the return array

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

int sum = 0;

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

{

if (data[i] == 'i')

{

sum++;

}

else if (data[i] == 'd')

{

sum--;

}

else if (data[i] == 's')

{

sum \*= sum;

}

else if (data[i] == 'o')

{

ans.Add(sum);

}

}

return ans.ToArray();

}

static void Main(string[] args)

{

int[] p = Parse("iiisdoso");

// => new int[] { 8, 64 };

foreach (int item in p)

{

Console.Write(item + " ");

}

Console.ReadLine();

}

}

}