**Ali and Helping innocent people**

Attempted by: **7231**

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Accuracy: **93%**

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Maximum Score: **20**

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144 Votes

Tag(s):

Basic Programming, Basics of Input/Output, Easy, Input/Output

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

Arpasland has surrounded by attackers. A truck enters the city. The driver claims the load is food and medicine from Iranians. Ali is one of the soldiers in Arpasland. He doubts about the truck, maybe it's from the siege. He knows that a tag is valid if the sum of every two consecutive digits of it is even and its letter is not a vowel. Determine if the tag of the truck is valid or not.

We consider the letters **"A","E","I","O","U","Y**" to be vowels for this problem.

**Input Format**

The first line contains a string of length 9. The format is "DDXDDD-DD", where D stands for a digit (non zero) and X is an uppercase english letter.

**Output Format**

Print "valid" (without quotes) if the tag is valid, print "invalid" otherwise (without quotes)

**SAMPLE INPUT**

12X345-67

**SAMPLE OUTPUT**

invalid

**Explanation**

The tag is invalid because the sum of first and second digit of it is odd (also the sum of 4'th and 5'th, 5'th and 6'th and 8'th and 9'th are odd).

**Time Limit:**1.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, TypeScript, Visual Basic

<https://www.hackerearth.com/practice/basic-programming/input-output/basics-of-input-output/practice-problems/algorithm/cartag-948c2b02/>

using System;

using System.Collections.Generic;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

// string s = "12X345-67";

//string s = "13X357-22";

string s = Console.ReadLine().Trim();

//The tag is invalid because the sum of

//first and second digit of it is odd

//(also the sum of 4'th and 5'th,

// 5'th and 6'th

// and 8'th and 9'th are odd).

bool valid = true;

if (((s[0] - '0') + (s[1] - '0')) % 2 != 0)

{

valid = false;

}

if ("AEIOUY".Contains(s[2].ToString()))

{

valid = false;

}

string p = s.Substring(3, 3);

for (int i = 0; i + 1 < p.Length; i++)

{

if (((p[i] - '0') + (p[i + 1] - '0')) % 2 != 0)

{

valid = false;

}

}

string r = s.Substring(7, 2);

for (int i = 0; i + 1 < r.Length; i++)

{

if (((r[i] - '0') + (r[i + 1] - '0')) % 2 != 0)

{

valid = false;

}

}

Console.WriteLine(valid ? "valid" : "invalid");

Console.ReadLine();

}

}

}