UCF Local Contest — September 1, 2018

Parity of Strings

filename: `parity`
(*Difficulty Level:* `Easy`)

The historical battle between *numbers* and *strings* has taken a new twist: *numbers* are bragging on their categorization of being "even" or "odd" and *strings* lacking such feature. But don't count *strings* out yet!

A string is considered "even" if *every* letter in the string appears an even number of times; the string is "odd" if *every* letter in the string appears an odd number of times.

The Problem:

Given a string, determine whether the string is even, odd, or neither.

The Input:

The input consists of a single line, starting in column 1, not exceeding column 70, and containing only the lowercase letters (at least one letter).

The Output:

The output consists of a single integer: print 0 (zero) if the string is even, 1 (one) if the string is odd, or 2 if the string is not even and is not odd (i.e., it is neither).

Sample Input	**Sample Output**
`coachessoaehwwwwww`	`0`
`coachesarefun`	`2`
`coachesc`	`1`