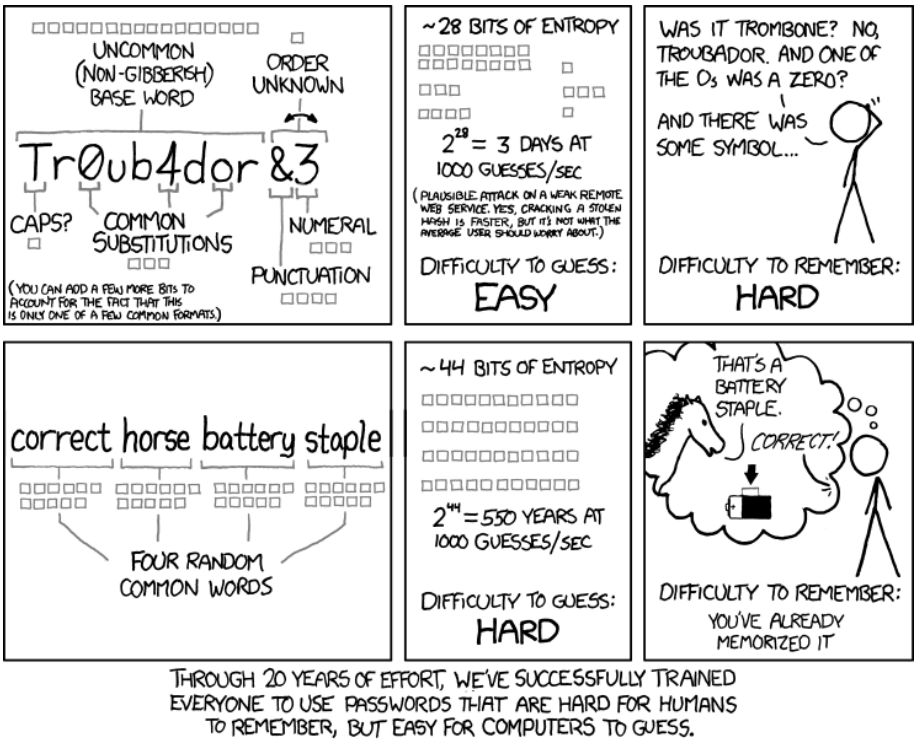
Password



Description

Write a password-protection program. The password is correcthorsebatterystaple, and it is case-sensitive.

Input

Input is the user's attempted password, which consists of alphabetic characters (100 or fewer).

Output

Output CORRECT if the user's attempted password is correct; output INCORRECT if it is not.

Examples

Input	Input
`CorrectHorseBatteryStaple`	`correcthorsebatterystaple`
Output	**Output**
`INCORRECT`	`CORRECT`

Vowels

Description

Count the number of vowels (a,e,i,o,u,y) in a “word”. Include both uppercase and lowercase vowels in your count.

Input

A sequence of alphabetic characters (no spaces), with length at most 10,000.

Output

The number of vowels.

Examples

Input	Input
`ObjectOriented`	`XKCD`
Output	**Output**
`6`	`0`