Mars Exploration

Sami's spaceship crashed on Mars! She sends sequential ***SOS*** messages to Earth for help.

Letters in some of the ***SOS*** messages are altered by cosmic radiation during transmission. Given the signal received by Earth as a string, ***S***, determine how many letters of Sami's ***SOS*** have been changed by radiation.

Input Format

There is one line of input: a single string, ***S***.

Note: As the original message is just ***SOS*** repeated times, ***S***'s length will be a multiple of ***3***.

Constraints

- **1 ≤ length(S) ≤ 99**
- **length(S) % 3 = 0**
- **S will contain only uppercase English letters.**

Output Format

Print the number of letters in Sami's message that were altered by cosmic radiation.

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Sample 1

Sample input	Sample output
SOSSPSSQSSOR	3

Explanation 1

S = ***SOSSPSSQSSOR***, and signal length of ***S = 12***. Sami sent ***4 SOS*** messages (i.e.: ***12/3 = 4***).

Expected signal: SOSSOSSOSSOS
Received signal: SOSSPSSQSSOR
Difference: X X X

We print the number of changed letters, which is ***3.***

Sample 2

Sample input	Sample output
SOSSOT	1

Explanation 2

S = SOSSOT, and signal length of ***S = 6***. Sami sent ***2 SOS*** messages (i.e.: ***6/3 = 2***).
Expected Signal: SOSSOS
Received Signal: SOSSOT
Difference: X

We print the number of changed letters, which is ***1.***

Sample 3

Sample input	Sample output
SOSSOSSOS	0

Explanation 3

Since no character is altered, we print 0.

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