

Mars Exploration

Sami's spaceship crashed on Mars! She sends n 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 n times, S 's length will be a multiple of 3.

Constraints

- $1 \leq |S| \leq 99$
- $|S| \% 3 = 0$
- S will contain only uppercase English letters.

Output Format

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

Sample Input 1

SOSSPSSQSSOR

Sample Output 1

3

Sample Input 2

SOSSOT

Sample Output 2

1

Explanation

Sample 1

$S = \text{SOSSPSSQSSOR}$, and signal length $|S|=12$. Sami sent $\lfloor \frac{12}{3} \rfloor = 4$ **SOS** messages (i.e.: $\lfloor \frac{12}{3} \rfloor = 4$).

Expected signal: **SOSSOSSOSSOS**

Received signal: **SOSSPSSQSSOR**

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

Sample 2

$S = \text{SOSSOT}$, and signal length $|S|=6$. Sami sent $\lfloor \frac{6}{3} \rfloor = 2$ **SOS** messages (i.e.: $\lfloor \frac{6}{3} \rfloor = 2$).

Expected Signal: **SOSSOS**

Received Signal: **SOSSOT**

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