

A space explorer's ship crashed on Mars! They send a series of 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 the SOS message have been changed by radiation.

Example

$s = \text{'SOSTOT'}$

The original message was SOS SOS. Two of the message's characters were changed in transit.

Function Description

Complete the marsExploration function in the editor below.

marsExploration has the following parameter(s):

- string s : the string as received on Earth

Returns

- int: the number of letters changed during transmission

Input Format

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

Constraints

- $1 \leq \text{length of } s \leq 99$
- $\text{length of } s \text{ modulo } 3 = 0$
- s will contain only uppercase English letters, $\text{ascii}[A-Z]$.

Explanation

Sample 0

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

Expected signal: SOSSOSSOSSOS

Recieved signal: SOSSPSSQSSOR

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

Sample 1

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

Expected Signal: SOSSOS

Received Signal: SOSSOT

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

```
9  """
10 # Complete the 'marsExploration' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts STRING s as parameter.
14 #
15
16 def marsExploration(s):
17     # write your code here
18     message = 'SOS'
19     result = 0
20
21     for idx in range(len(s)):
22         if s[idx] != message[idx%3]:
23             result += 1
24
25     return result
26
27 if __name__ == '__main__':
28     fptr = open(os.environ['OUTPUT_PATH'], 'w')
29
30     s = input()
31
32     result = marsExploration(s)
33
34     fptr.write(str(result) + '\n')
35
36     fptr.close()
37
```

Line: 25 Col: 18

Upload Code as File

Test against custom input

Run Code

Submit Code

Congratulations

You solved this challenge. Would you like to challenge your friends?



Test case 0

Test case 1

Test case 2



Test case 3



Test case 4



Test case 5



Test case 6



Compiler Message

Success

Input (stdin)

Download

SOSSPSSQSSOR

Expected Output

Download

3