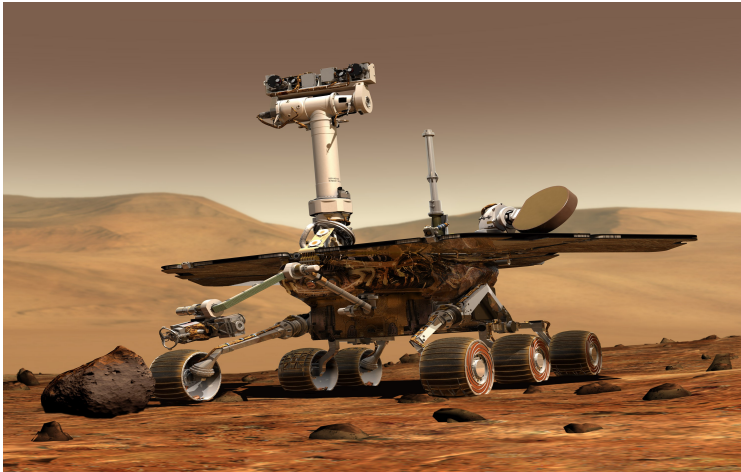# MARS EXPLORATION ROVER – A (SPIRIT)

Spirit.[c | cpp | java | cs]

Spirit, also known as MER-A (Mars Exploration Rover – A) or MER-2, is a robotic rover on Mars, active from 2004 to 2010. It was one of two rovers of NASA's ongoing Mars Exploration Rover Mission.

The rover continued in a stationary science platform role until communication with Spirit stopped on sol 2210 (March 22, 2010). The Jet Propulsion Laboratory (JPL) continued to attempt to regain contact until May 24, 2011, when NASA announced that efforts to communicate with the unresponsive rover had ended, calling the mission complete.

While Spirit was sending messages to JPL the messages consisted in N sequential SOS. However letters in some of the SOS messages are altered by cosmic radiation during transmission.

Given the signal received by JLP as a string, S, determine how many letters of Spirit's message have been changed by radiation.

Input Format

There is one line of input with a single string, S. 1 ≤ message's length ≤ 99, message's length is a multiple of 3 and the message will contain only uppercase English letters.

The original message is just the sequence SOS repeated N times,where N is a multiple of 3.

Output Format

Print the number of letters in S that were altered by cosmic radiation. After print the number print a end of line character

Samples

Input	Output
SOSSPSSQSSOR	3

Input	Output
SOSSOT	1