

UWPC

Question 7 Elevator Goes Up

You are given a string of elevator instructions where an opening parenthesis '(' means to go up one floor, and a closing parenthesis ')' means to go down one floor. Your task is to determine the final floor after following all the instructions in the string.

Input

- A single line string containing the elevator instructions.

Output

- A single integer, representing the final floor after following all the instructions.
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Sample 1

Input

(())

Output

0

Explanation: The instructions lead to the same floor (floor 0).

Sample 2

Input

(((

Output

3

Explanation: Each '(' instruction leads up one floor, resulting in floor 3.

Sample 3

Input

()))

Output

-3

Explanation: The instructions lead down to floor -3.