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2. Minimum Swaps

A balanced sequence of parentheses is one in which every opening bracket has a corresponding closing bracket to it. More formally, a sequence of parantheses is considered balanced if it can be represented in the form s1(s2) where both s1 and s2 are either empty or balanced strings.

Given a sequence of parentheses, find the minimum number of swaps needed to make the sequence balanced. It is not necessary to swap adjacent characters only. If it is impossible to balance the string, return -1.

Example
brackets = *")()())("*

Swap the characters at the first and last index to get *"(()())"* which is balanced. The string can be balanced with1 swap.

Function Description
Complete the function *minimumSwaps* in the editor below.

minimumSwaps has the following parameter(s):
string brackets: the string to analyze

Constraints

int: the minimum number of swaps or -1

Constraints

- 1 ≤ length of the string *brackets* ≤ 10^5
- *brackets* consists of *')'* and *'('* only.

▶ **Input Format For Custom Testing**

▶ **Sample Case 0**

▶ **Sample Case 1**

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