Equal point in a string of brackets

Difficulty: Easy   Accuracy: **40.8%**   Submissions: **20K+**   Points: **2**

Given a string **str** of opening and closing brackets '(' and ')' only. The task is to find an equal point. An **equal point** is an index (0-based) such that the number of closing brackets on the right from that point must be equal to the number of opening brackets before that point.

Examples:

Input: str = "(()))("
Output: 4
Explanation: After index 4, string splits into (())) and)(. Number of opening brackets in the first part is equal to number of closing brackets in the second part.

Input : str = "))"
Output: 2
Explanation: As after 2nd position i.e.)) and "empty" string will be split into these two parts: So, in this number of opening brackets i.e. 0 in the first part is equal to number of closing brackets in the second part i.e. also 0.

Expected Time Complexity: O(n)
Expected Auxiliary Space: O(n)

Constraints:
$1 \leq str.size() \leq 10^6$
str consists of only '(' and ')' brackets.