**Valid Parenthesis String**

Given a string containing only three types of characters: '(', ')' and '\*', write a function to check whether this string is valid. We define the validity of a string by these rules:

1. Any left parenthesis '(' must have a corresponding right parenthesis ')'.
2. Any right parenthesis ')' must have a corresponding left parenthesis '('.
3. Left parenthesis '(' must go before the corresponding right parenthesis ')'.
4. '\*' could be treated as a single right parenthesis ')' or a single left parenthesis '(' or an empty string.
5. An empty string is also valid.

**Example 1:**

**Input:** "()"

**Output:** True

**Example 2:**

**Input:** "(\*)"

**Output:** True

**Example 3:**

**Input:** "(\*))"

**Output:** True

**Note:**

1. The string size will be in the range [1, 100].