Given a string s containing only three types of characters: '(', ')' and '\*', return true *if* s *is* ***valid***.

The following rules define a **valid** string:

* Any left parenthesis '(' must have a corresponding right parenthesis ')'.
* Any right parenthesis ')' must have a corresponding left parenthesis '('.
* Left parenthesis '(' must go before the corresponding right parenthesis ')'.
* '\*' could be treated as a single right parenthesis ')' or a single left parenthesis '(' or an empty string "".

**Example 1:**

Input: s = "()"  
Output: true

**Example 2:**

Input: s = "(\*)"  
Output: true

**Example 3:**

Input: s = "(\*))"  
Output: true

**Constraints:**

* 1 <= s.length <= 100
* s[i] is '(', ')' or '\*'.