

# 678. Valid Parenthesis String

## Description

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 `'*'` .

