[LeetCode](https://leetcode.com/problems/valid-parenthesis-string/description/?envType=daily-question&envId=2024-04-07)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/valid-parenthesis-string/description/?envType=daily-question&envId=2024-04-07>

<https://www.linkedin.com/in/aditya-adi-konda/>

Day 48 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
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Ventured further into my coding journey today, tackling the engaging LeetCode Problem "Successfully solved LeetCode Problem ���"

“678. Valid Parenthesis String.”

   
✨ Task: 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 "".

Examples:

Example 1:

Input: s = "()"

Output: true

Example 2:

Input: s = "(\*)"

Output: true

Example 3:

Input: s = "(\*))"

Output: true

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: <https://github.com/AdityaKonda6/-50DaysOfCoding>  
  
  
Happy coding!

**Solution:-**

class Solution {

  public boolean checkValidString(final String s) {

    int low = 0;

    int high = 0;

    for (final char c : s.toCharArray()) {

      switch (c) {

        case '(':

          ++low;

          ++high;

          break;

        case ')':

          low = Math.max(0, --low);

          --high;

          break;

        case '\*':

          low = Math.max(0, --low);

          ++high;

          break;

      }

      if (high < 0)

        return false;

    }

  return low == 0;

  }

}

