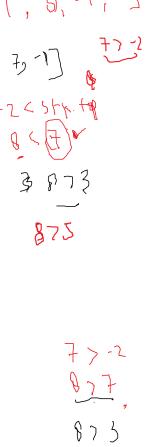


Q

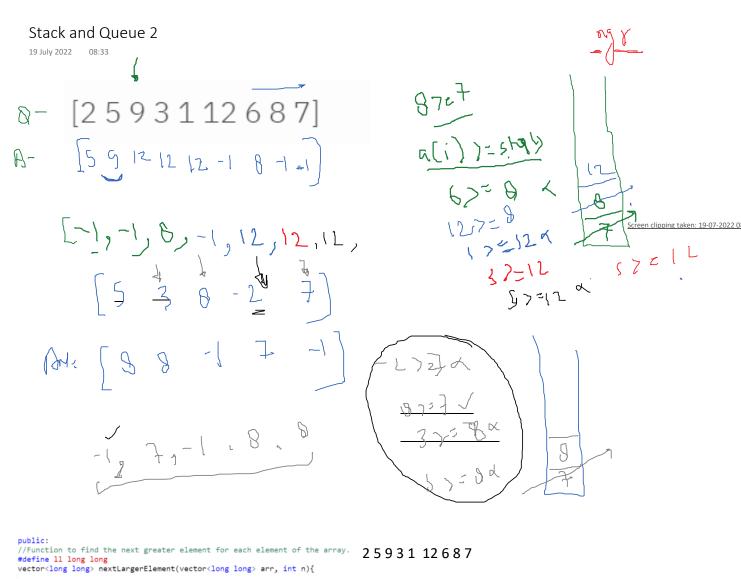
Input and output is handled for you.

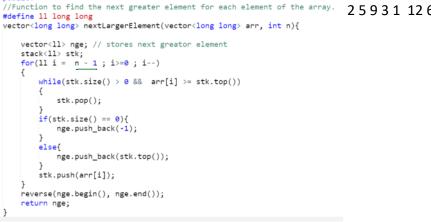
for the array [2 5 9 3 1 12 6 8 7]



855

Stk





ryl [1 6 ,4 ,10, 2 ,5]

[-1, -1, & j -1, lo | 10]

17=6d 67=4 67=4 67=10d 67=50 67=50 17=10d 17=50

Given a circular integer array nums (i.e., the next element of nums[nums.length - 1] is nums[\emptyset]), return the **next greater number** for every element in nums.

The **next greater number** of a number x is the first greater number to its traversing-order next in the array, which means you could search circularly to find its next greater number. If it doesn't exist, return -1 for this number.

Example 1:

Input: nums = [1,2,1]
Output: [2,-1,2]

Explanation: The first 1's next greater number is 2; The number 2 can't find next greater number.

The second 1's next greater number needs to search circularly, which is also 2.

Example 2:

Input: nums = [1,2,3,4,3] Output: [2,3,4,-1,4] -1 -3 M 1 -3 2 -1 3 M 1 2 -3 3 -1 3 -3 4.

-1 -1 2 3 4

20 July 2022 09:16

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Farmer John has built a new long barn, with N (2 \leq N \leq 100,000) stalls. The stalls are located along a straight line at positions x1,...,xN (0 \leq xi \leq 1,000,000,000).

His C ($2 \le C \le N$) cows don't like this barn layout and become aggressive towards each other once put into a stall. To prevent the cows from hurting each other, FJ wants to assign the cows to the stalls, such that the minimum distance between any two of them is as large as possible. What is the largest minimum distance?

- t the number of test cases, then t test cases follows.
- * Line 1: Two space-separated integers: N and C * Lines 2..N+1: Line i+1 contains an integer stall location, xi

Output

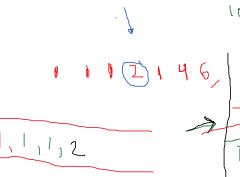
For each test case output one integer: the largest minimum distance.

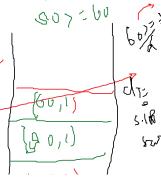
Example

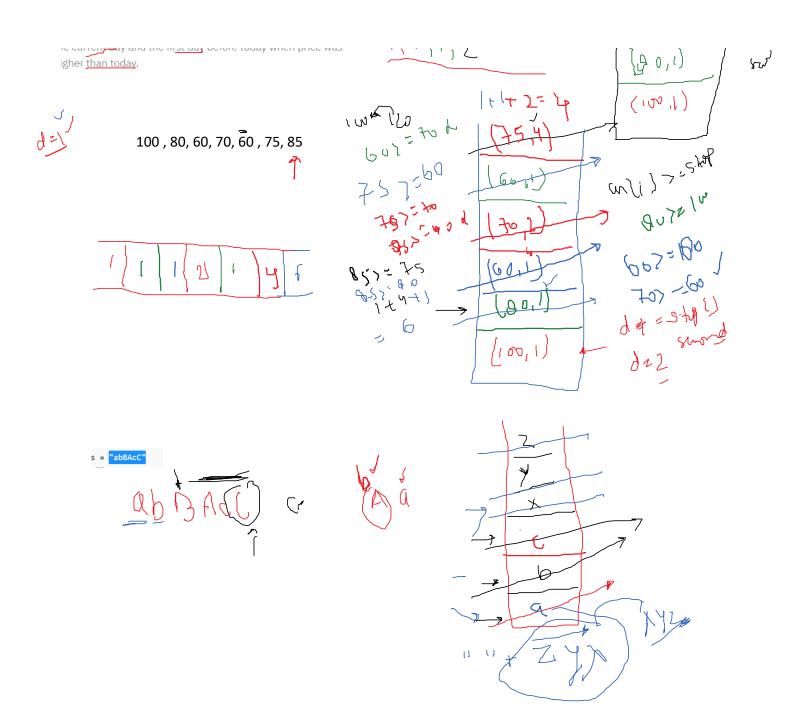
Input:

stock span

- . You are given a number n, representing the size of array a.
- . You are given n numbers, representing the prices of a share on
- . You are required to find the stock span for n days.
- . Stock span is defined as the number of days passed between ne current day and the first day before today when price was igher than today.







21 July 2022 14:11

```
Input: s = "abBAcC"
Output: ""
Explanation: We have many possible scenarios, and all lead to the same answer. For example: "abBAcC" --> "aAcC" --> "cC" --> ""
```

Given a string s of lower and upper case English letters.

A good string is a string which doesn't have two adjacent characters s[i] and s[i + 1] where:

- 0 <= i <= s.length 2
- s[i] is a lower-case letter and s[i + 1] is the same letter but in upper-case or vice-versa.

To make the string good, you can choose two adjacent characters that make the string bad and remove them. You can

keep doing this until the string becomes good. Return the string after making it good. The answer is guaranteed to be unique under the given constraints. Notice that an empty string is also good. Ldotel Given two string arrays word1 and word2, return true if the two arrays represent the same string, and false otherwise. A string is **represented** by an array if the array elements concatenated in order forms the string.

A string is represented by an array if the array elements concatenated in order forms the string. Example 1: Input: word1 Output: true Explanation: ather about word1 represents string "ab" + "c" -> "abc" word2 represents string "a" + "bc" -> "abc" The strings are the same, so return true. Input: word1 = ["abc", "d", "defg"], word2 = ["abcddefg"] Output: true Reverse a string ч "Hey, How are you doing?" "Doing? You are how hey," Queue using arrays, taken: 21-07-2022 16:33 Input: s = "(*)" 678. Valid Parenthesis String Output: true Medium 1 3609 5 90 ♥ Add to List 1 Share Example 3: Given a string s containing only three types of characters: '(', ')' and '*', return true if s is valid. Input: s = The following rules define a valid string: Output: true Any left parenthesis '(' must have a corresponding right • Any right parenthesis ')' must have a corresponding left parenthesis '(' .

• Left parenthesis '(' must go before the corresponding

- parenthesis ')'.

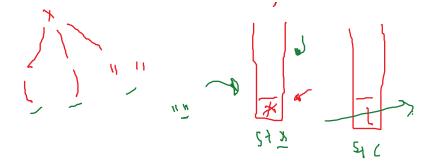
 Any right parenthesis ')' must have a corresponding left parenthesis '('.

 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 "".

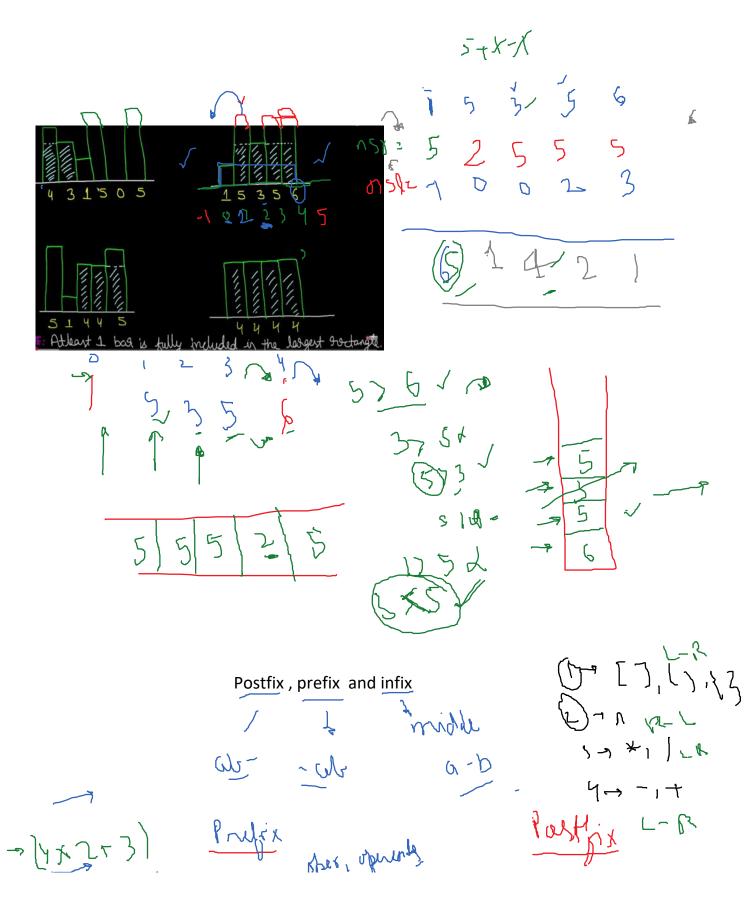
Example 1:

Input: s = "()" Output: true



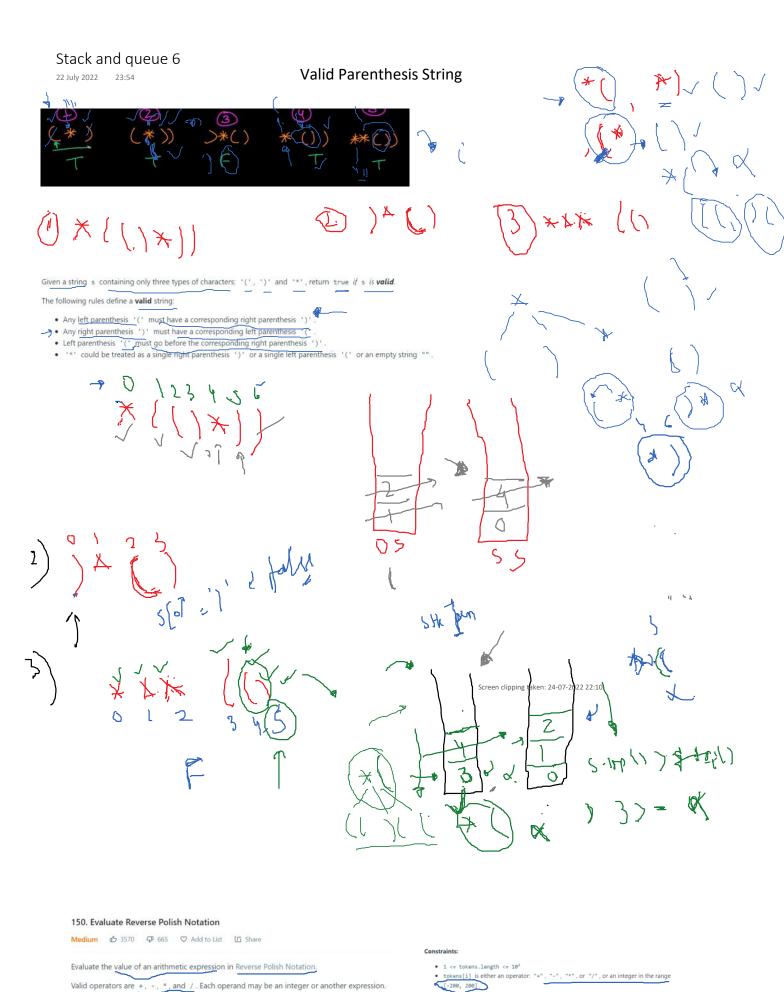
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Largest Area Historgram



(-> \rangle 12) Postfix evalutaion Infix to postfix

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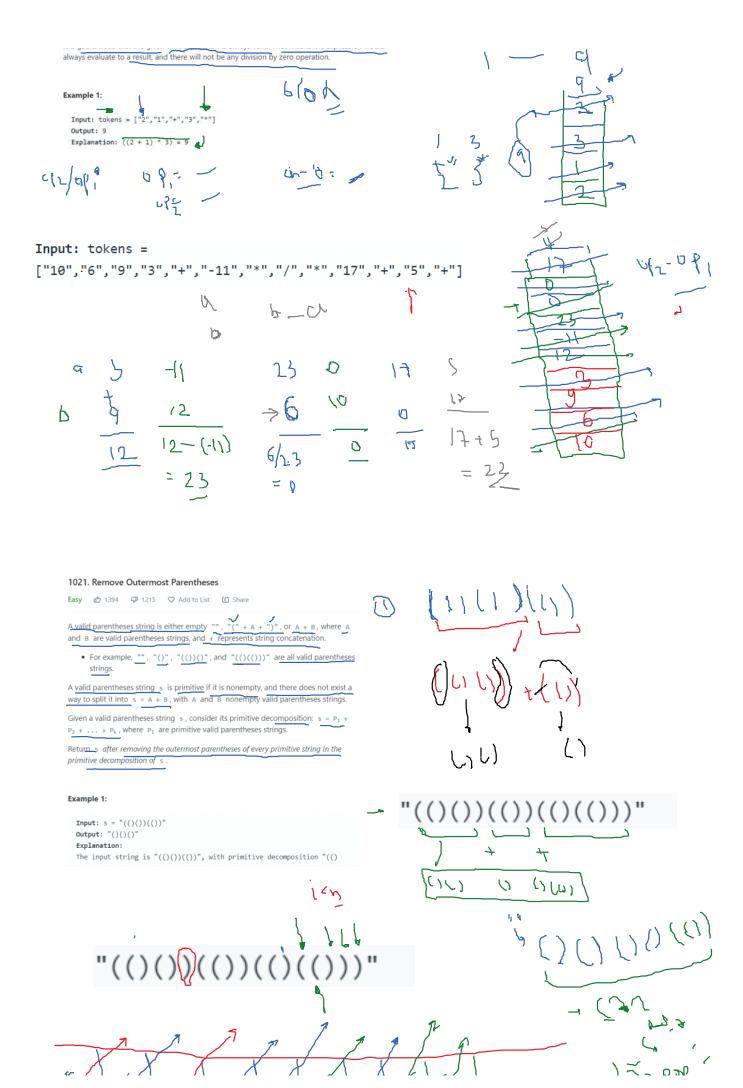


61m K

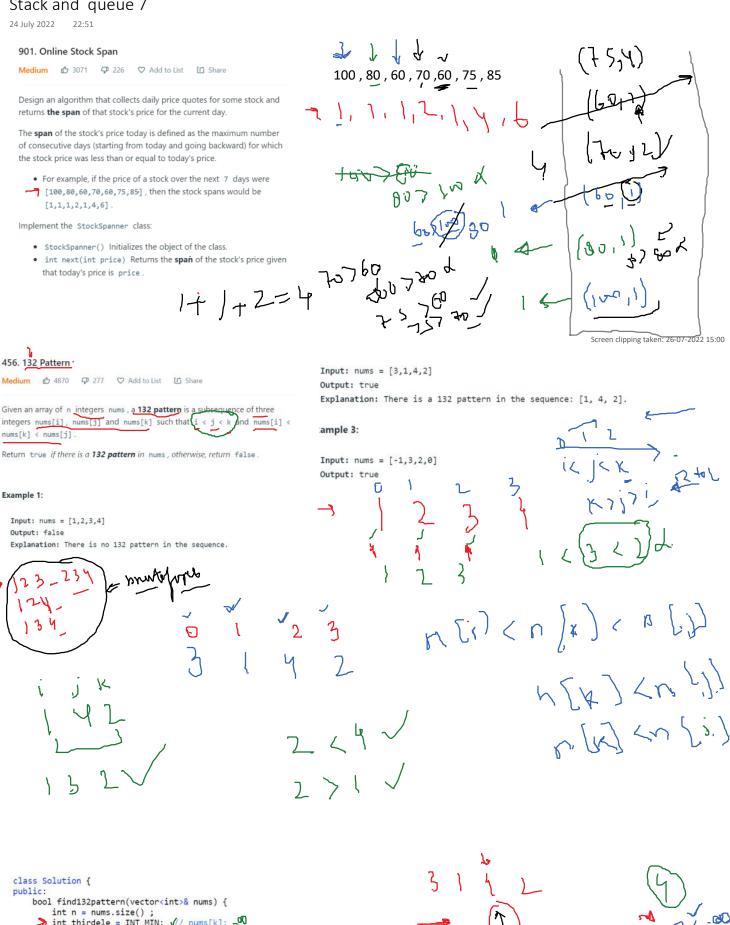
It is guaranteed that the given RPN expression is always valid. That means the expression would always evaluate to a result, and there will not be any division by zero operation.

Note that division between two integers should truncate toward zero.

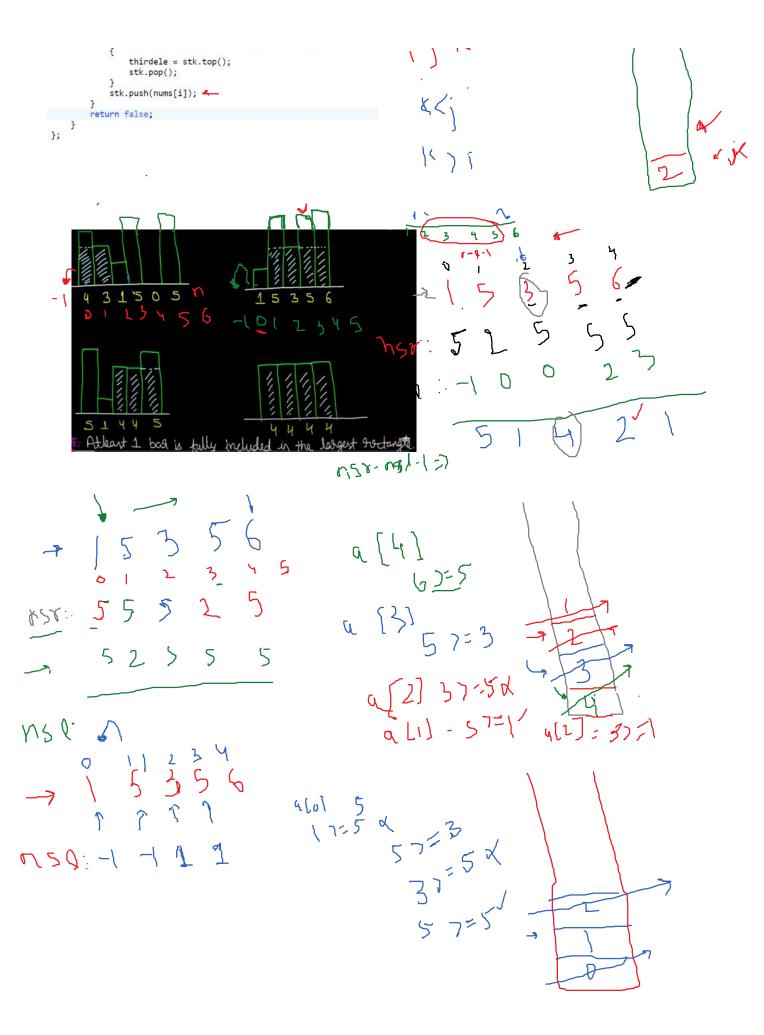
Fyample 1:



) For prof.







27 July 2022 14:14

32. Longest Valid Parentheses

Given a string containing just the characters '(' and ')', find the length of the longest valid (well-formed) parentheses substring.

Example 1:

Input: s = "(()"

Output: 2

Explanation: The longest valid parentheses substring is "()".

Example 2:

Input: s = ")()())"

Output: 4

Explanation: The longest valid parentheses substring is "()()".

~~ 108CV ? 2-032

7(20 :03

0: 88 + 23 C: 88 + 23 and of the 270 472

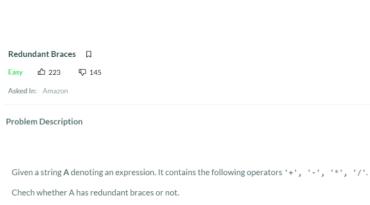
1-2.top63. ()(())(611 34567 4-2=2 5- (-1)=1

P

Mrs 9

Opening == closing

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Input 1:

Input 2:

Example Input

A = "(a+(a+b))"

"((a+b)+(e+(c*d)))/(a+c)"

A parentheses string is valid if and only if:

It is the empty string,

NOTE: A will be always a valid expression.

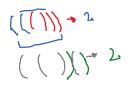
- It can be written as AB (A concatenated with B), where A and B are valid strings, or
- . It can be written as (A), where A is a valid string.

You are given a parentheses string s. In one move, you can insert a parenthesis at any position of the string.

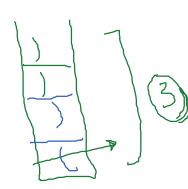
• For example, if s = "()))", you can insert an opening parenthesis to be "(()))" or a closing parenthesis to be " ())))".

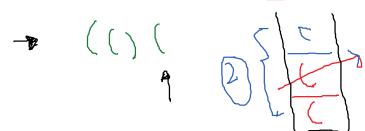
Return the minimum number of moves required to make s valid.





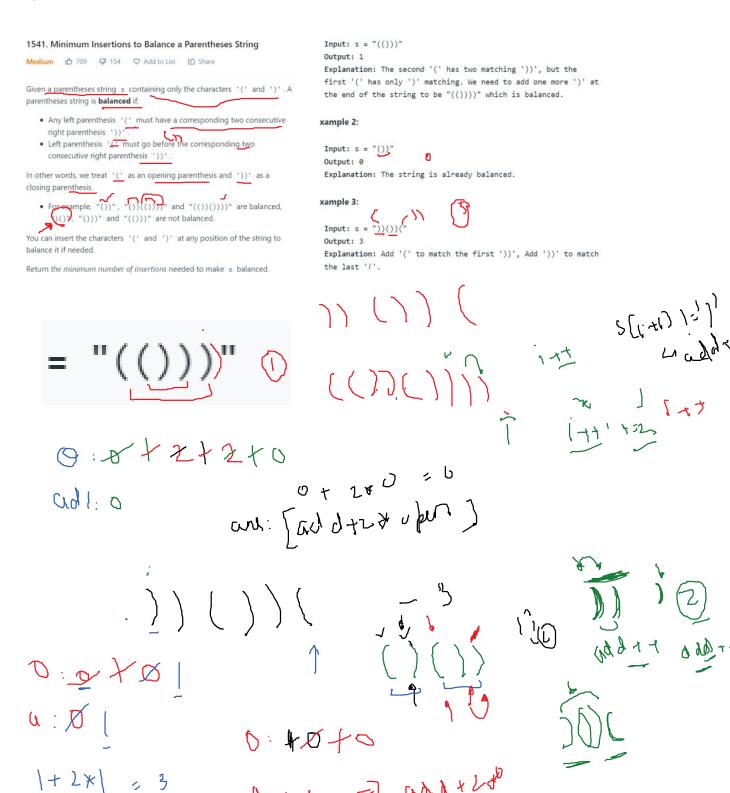






ans: # 2

```
int minAddToMakeValid(string s)
   int open = 0 , close = 0 , ans = 0;
       if(x == '(')
           close++;
       if(close > open)
           ans++;
   return ans + (abs ( open -close));
```



1249. Minimum Remove to Make Valid Parentheses

"lee(t(c)o)de)"

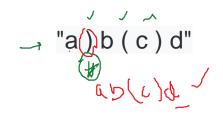
Given a string s of '(', ')' and lowercase English characters.

Your task is to remove the minimum number of parentheses ('(' or ')', in any positions) so that the resulting parentheses string is valid and return any valid string.

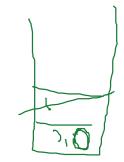
Formally, a parentheses string is valid if and only if:

- It is the empty string, contains only lowercase characters, or
- It can be written as AB (A concatenated with B), where A and B are valid strings, or
- . It can be written as (A), where A is a valid string.

"lee(t(c)o)de)"



0(1)





D: K2 5:12



0:12 C: 7 7 3

1963. Minimum Number of Swaps to Make the String Balanced

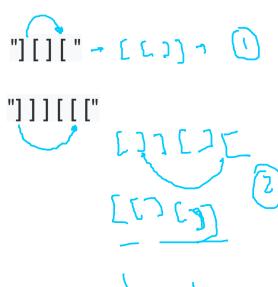
You are given a 0-indexed string s of even length n. The string consists of exactly n / 2 opening brackets '[' and n / 2 closing brackets ']'

A string is called balanced if and only if:

- · It is the empty string, or
- It can be written as AB, where both A and B are balanced
- It can be written as [C] where C is a balanced string.

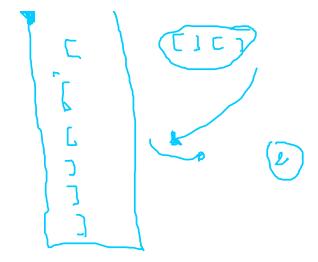
You may swap the brackets at any two indices any number of times.

Return the minimum number of swaps to make s balanced.



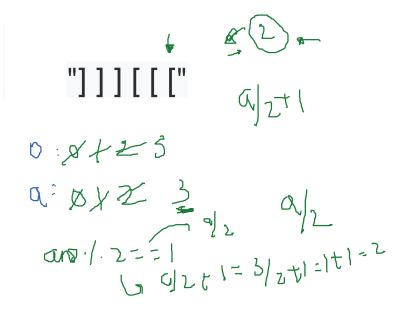






01 August 2022

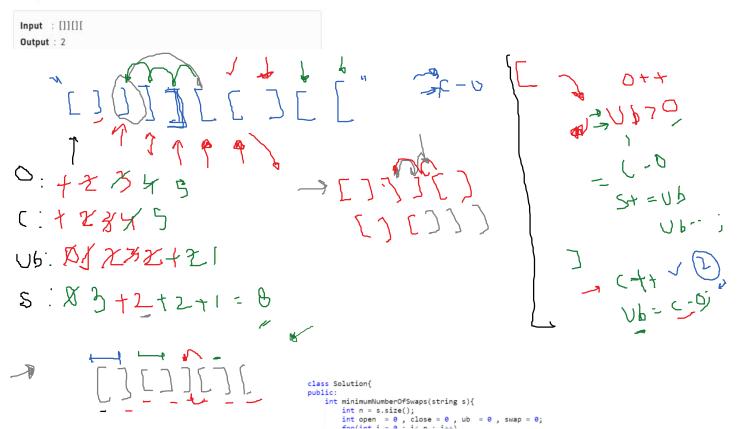






You are given a string S of 2N characters consisting of N '[' brackets and N ']' brackets. A string is considered balanced if it can be represented in the for S2[S1] where S1 and S2 are balanced strings. We can make an unbalanced string balanced by swapping adjacent characters. Calculate the minimum number of swaps necessary to make a string balanced. Note - Strings S1 and S2 can be empty.

Example 1:



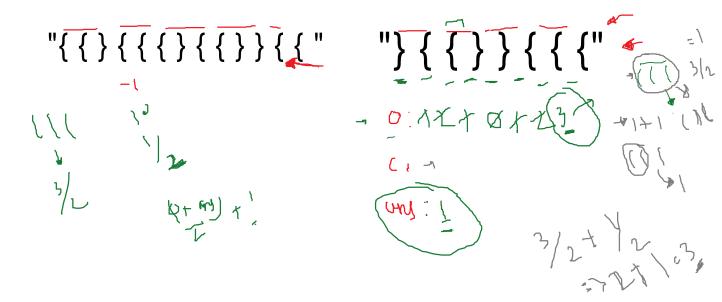
D: +2x 4 C: +2x 4 Ub: &x 1x 10 S: 0:1+1=2

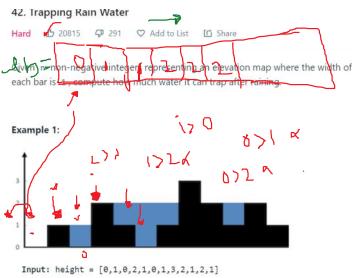
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Count the Reversals 口 Medium Accuracy: 50.95% Submissions: 25034 Points: 4

Given a string **S** consisting of only opening and closing curly brackets '**{**' and '**}**', find out the minimum number of reversals required to convert the string into a balanced expression.

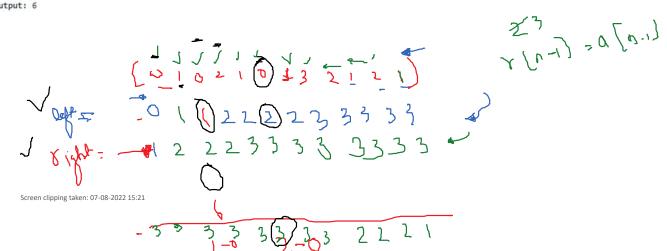
A reversal means changing '**{**' to '**}**' or vice-versa.





f(arr[i] > left_b[i-1]) // 0 1 0 2 1 left_b[i] = arr[i]; { left_b[i] = left_b[i-1]; **«**

Output: 6



```
Example 1:
                  [0,1,0,2,1,0,1,3,2,1,2,1]
 Output: 6
```

```
f(left_b < right_b)
   f(arr[right] > right_b) // 0 1
     right_b = arr[right];
     e{
ans += right_b - arr[right];
```

Container with Most Water

