1249. Minimum Remove to Make Valid Parentheses

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.

Example 1:

```
Input: s = "lee(t(c)o)de)"
Output: "lee(t(c)o)de"
Explanation: "lee(t(co)de)" , "lee(t(c)ode)" would also be accepted.
```

Example 2:

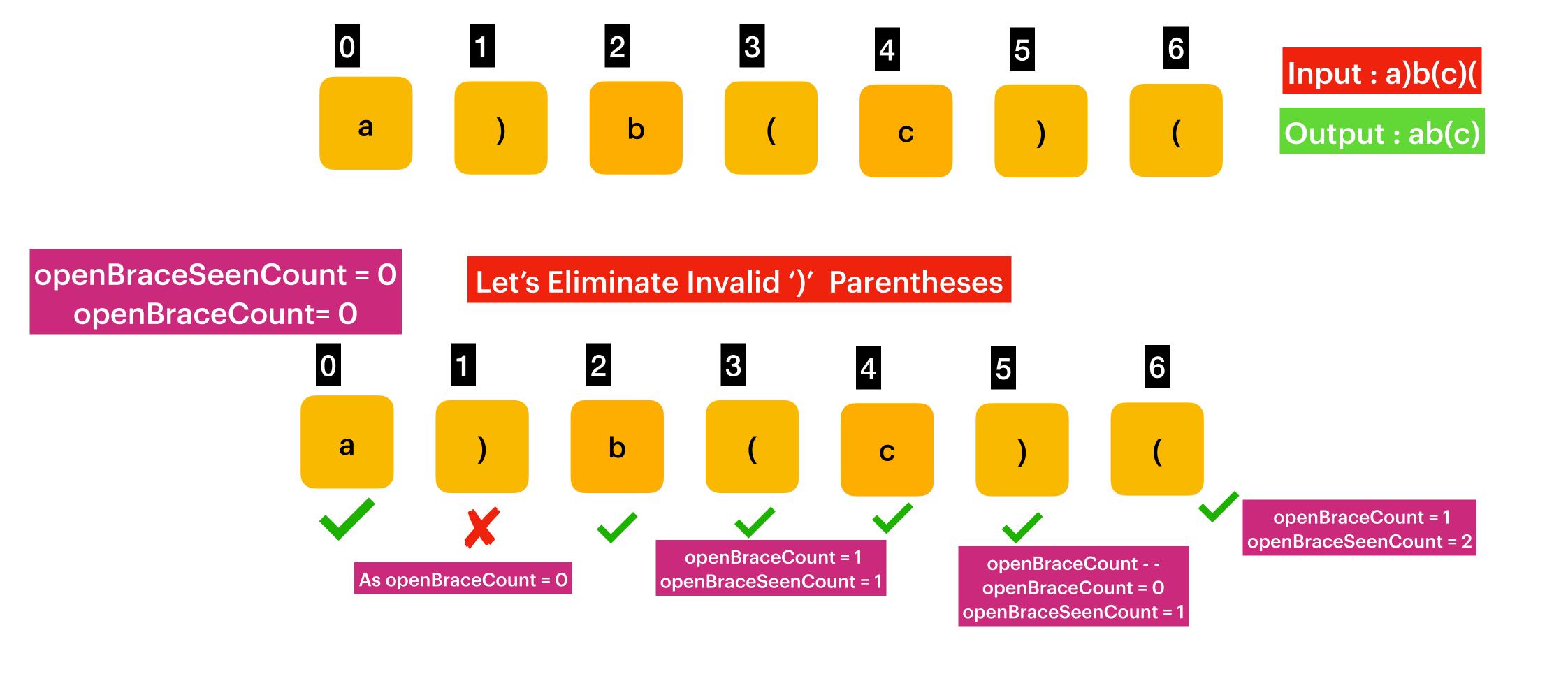
```
Input: s = "a)b(c)d"
Output: "ab(c)d"
```

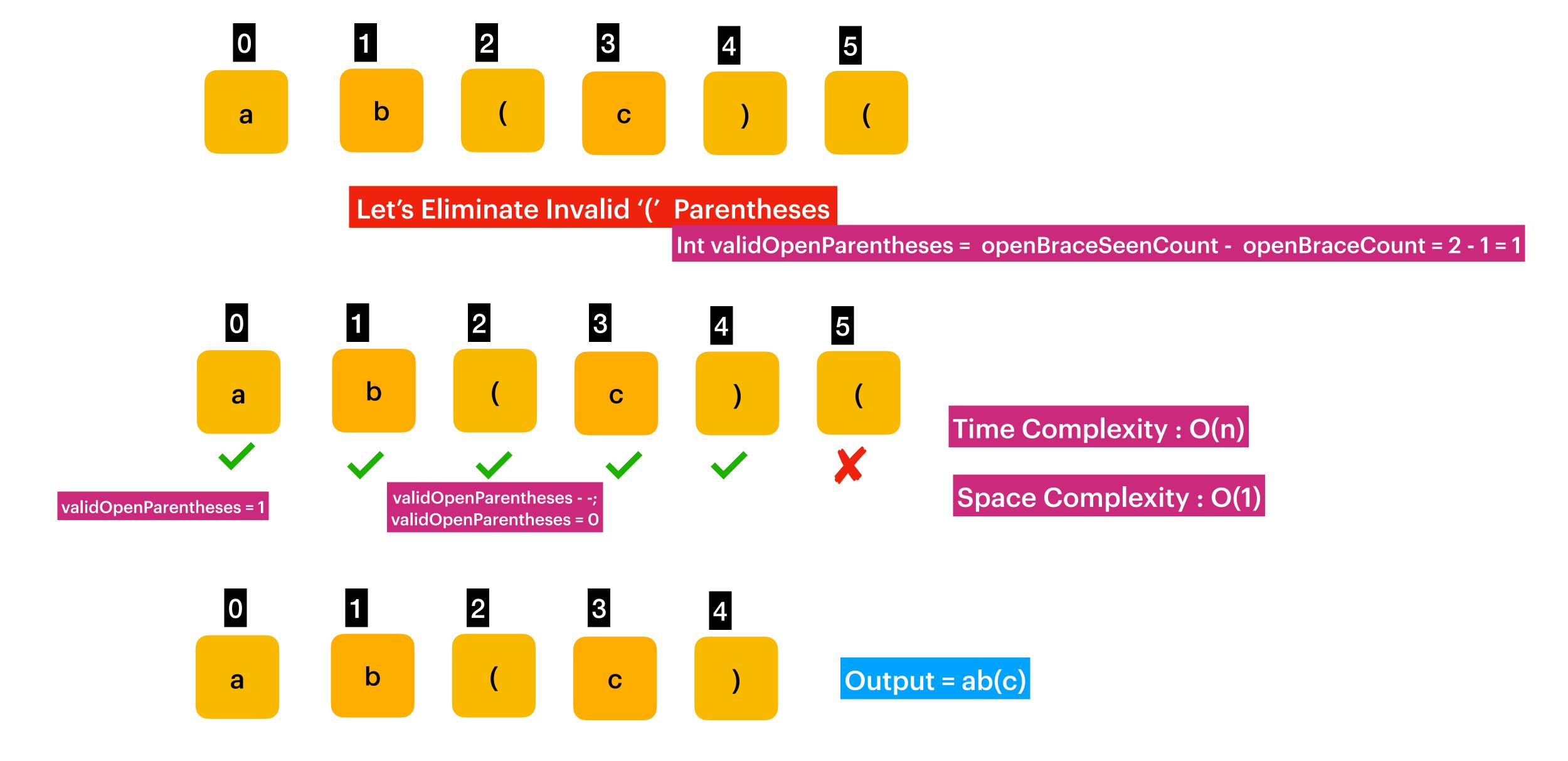
Example 3:

```
Input: s = "))(("
Output: ""
Explanation: An empty string is also valid.
```

Constraints:

- 1 <= s.length <= 10^5
- s[i] is either '(', ')', or lowercase English letter.





42. Trapping Rain Water

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Given n non-negative integers representing an elevation map where the width of each bar is 1, compute how much water it can trap after raining.

Example 1:



Input: height = [0,1,0,2,1,0,1,3,2,1,2,1]

Output: 6

Explanation: The above elevation map (black section) is represented by array [0,1,0,2,1,0,1,3,2,1,2,1]. In this case, 6 units of rain

water (blue section) are being trapped.

Example 2:

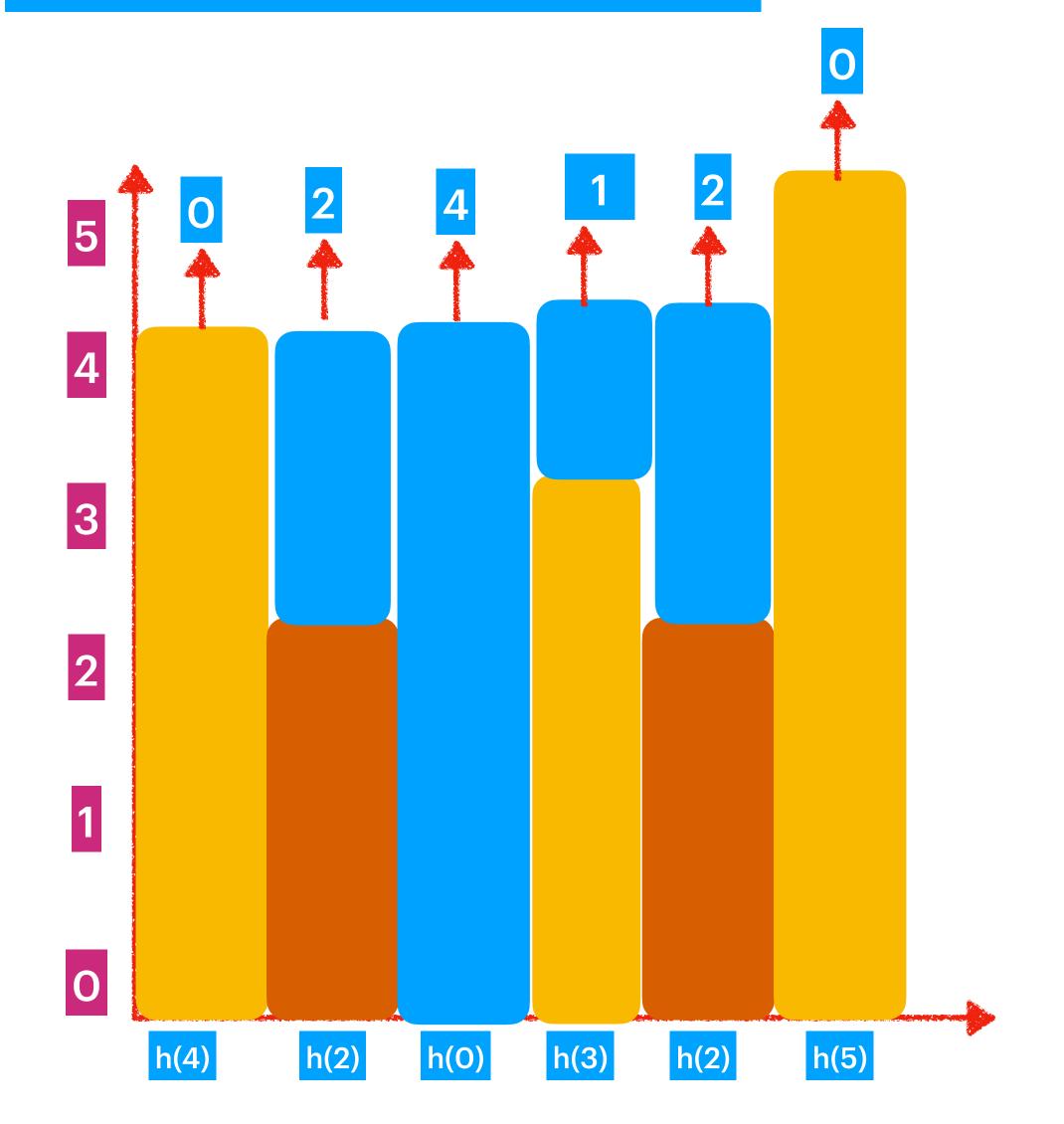
Input: height = [4,2,0,3,2,5]

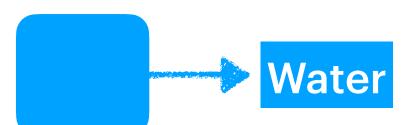
Output: 9

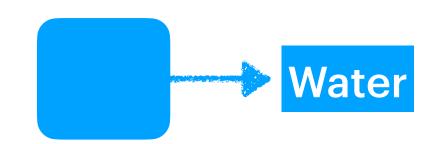
Constraints:

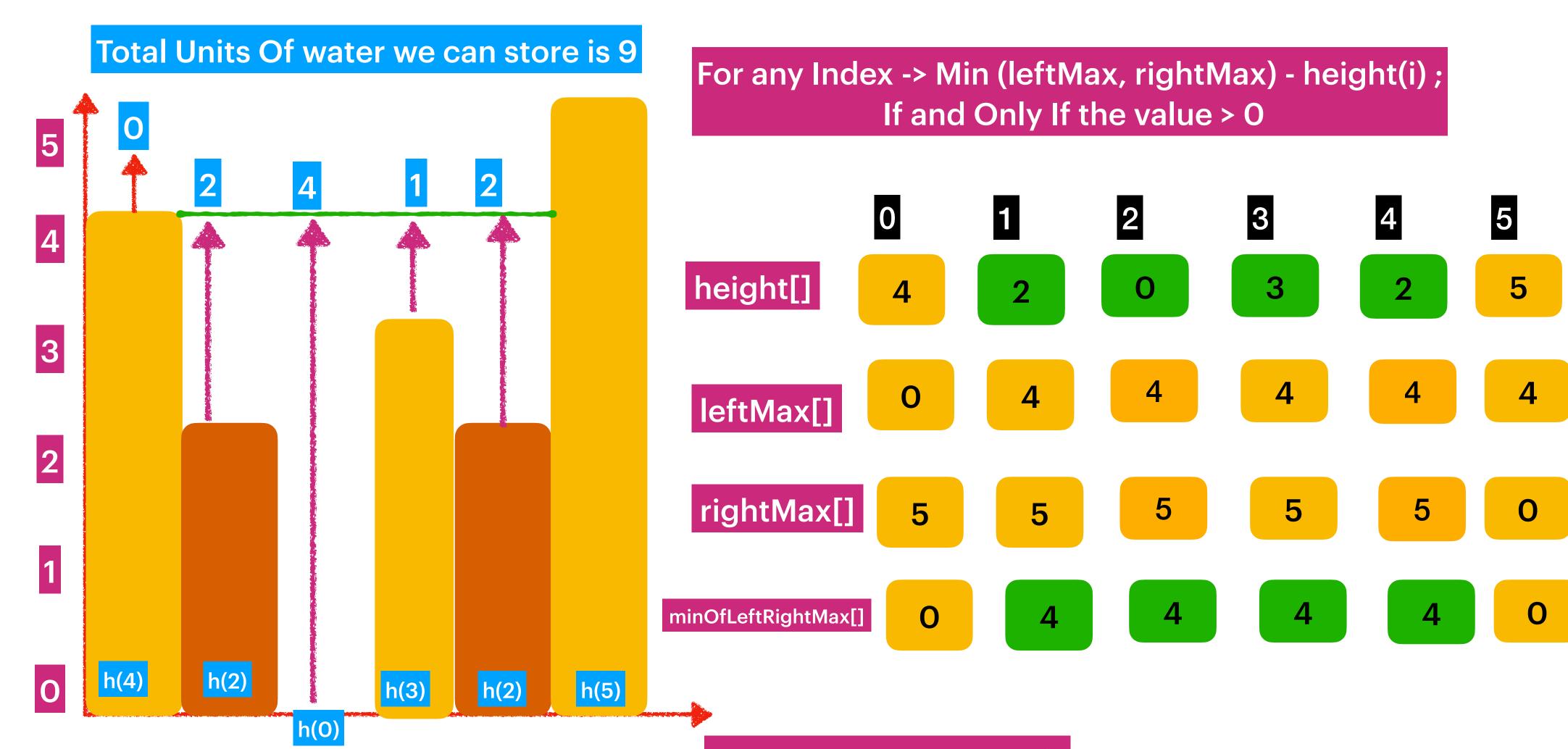
- n == height.length
- $1 \le n \le 2 * 10^4$
- $0 \le height[i] \le 10^5$

Total Units Of water we can store is 9









Time Complexity: O(n)
Space Complexity: O(n)

