

1762. Buildings With an Ocean View

Medium  839  112  Add to List  Share

There are `n` buildings in a line. You are given an integer array `heights` of size `n` that represents the heights of the buildings in the line.

The ocean is to the right of the buildings. A building has an ocean view if the building can see the ocean without obstructions. Formally, a building has an ocean view if all the buildings to its right have a **smaller** height.

Return a list of indices (**0-indexed**) of buildings that have an ocean view, sorted in increasing order.

Example 1:

Input: heights = [4,2,3,1]

Output: [0,2,3]

Explanation: Building 1 (0-indexed) does not have an ocean view because building 2 is taller.

Example 2:

Input: heights = [4,3,2,1]

Output: [0,1,2,3]

Explanation: All the buildings have an ocean view.

Example 3:

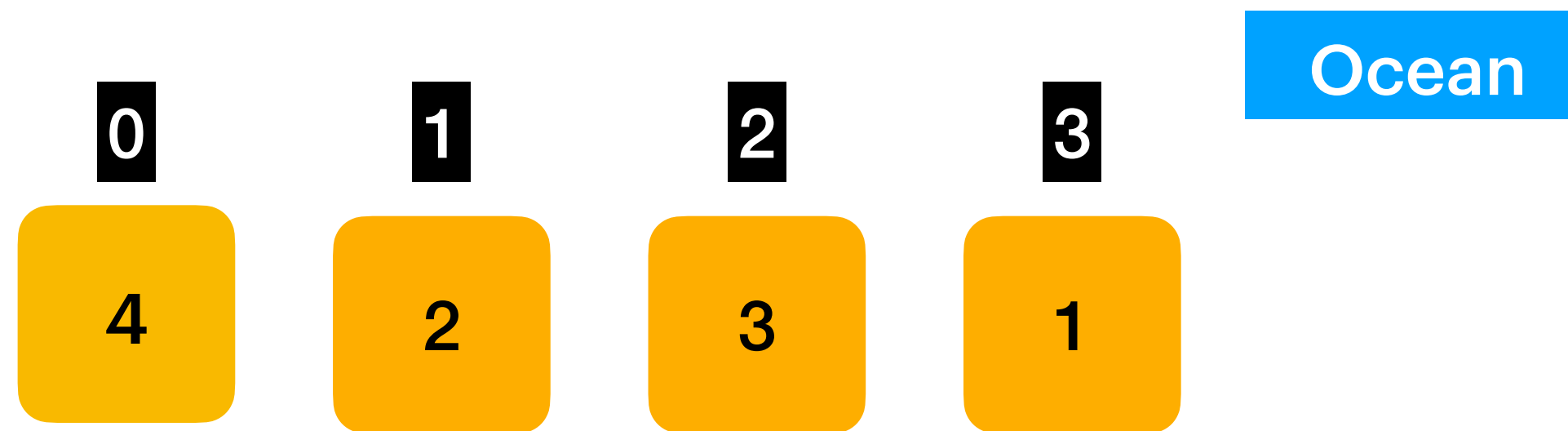
Input: heights = [1,3,2,4]

Output: [3]

Explanation: Only building 3 has an ocean view.

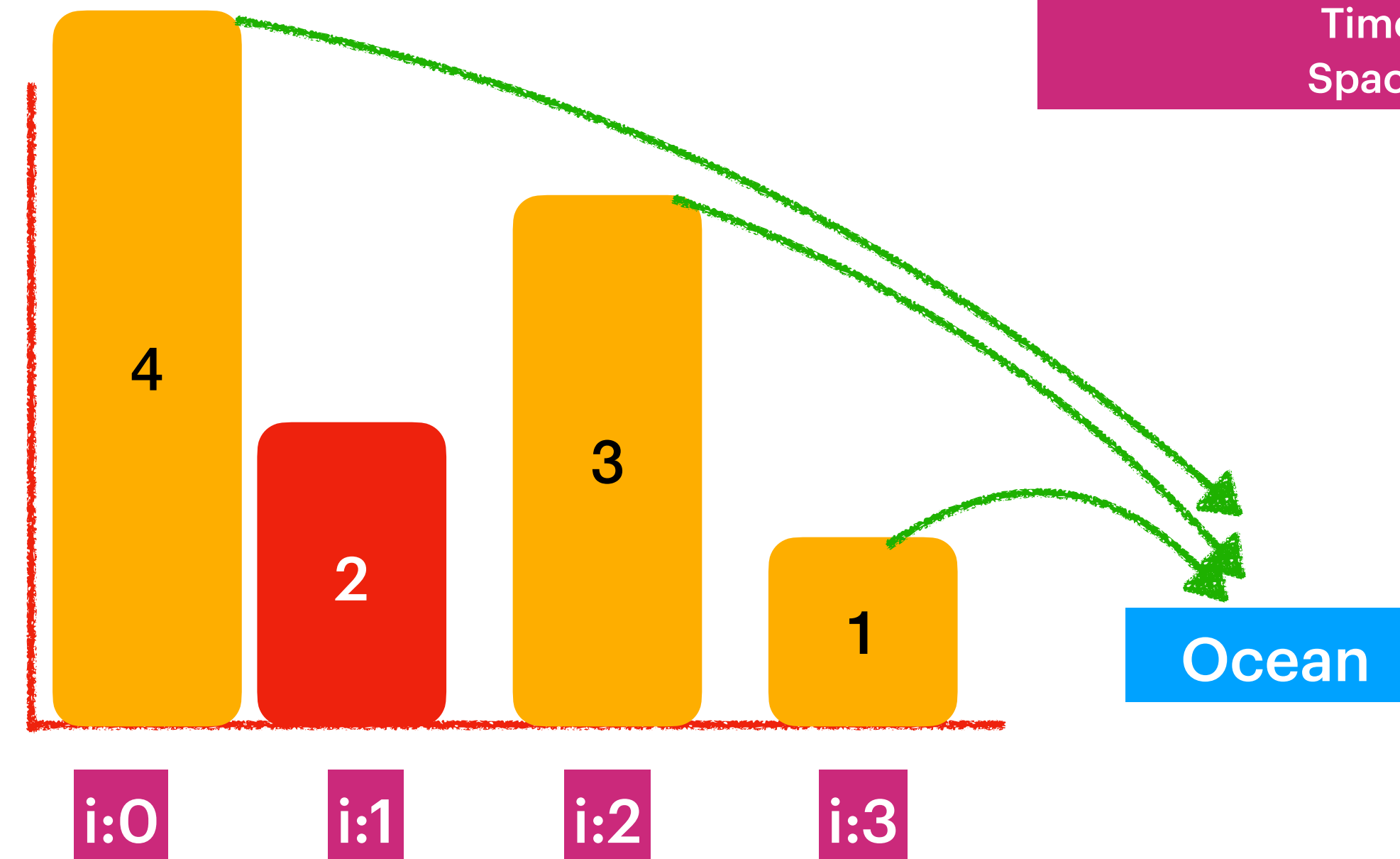
Constraints:

- `1 <= heights.length <= 105`
- `1 <= heights[i] <= 109`



Algo :
—> Always rightmost index has the ocean view so push into stack.
—> Start from rightMostindex-1 , if the current Index value is > top of the stack then push to stack.
-> Finally iterate stack elements then add to array.

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



The Flat Index have ocean view are {0,2,3}

1249. Minimum Remove to Make Valid Parentheses

Medium 4919 85 Add to List Share

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:

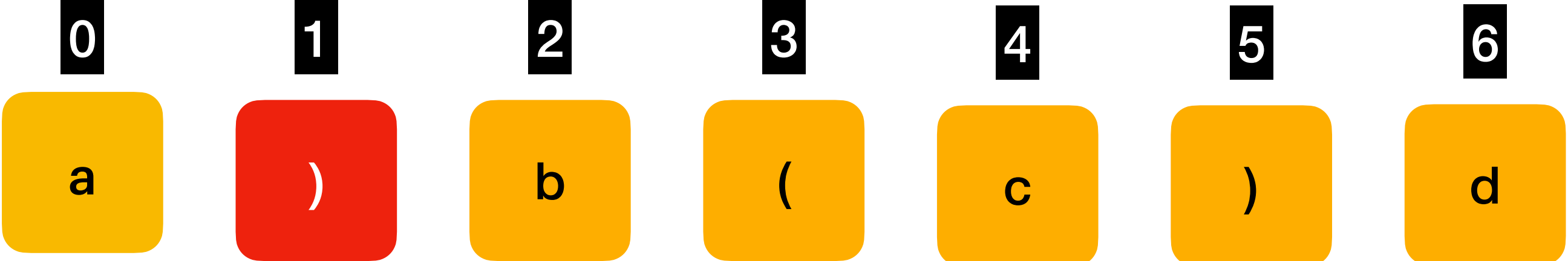
Input: `s = "))(("`
Output: `""`
Explanation: An empty string is also valid.

Constraints:

- `1 <= s.length <= 105`
- `s[i]` is either `'('`, `)'`, or lowercase English letter `.`

Input: a)b(c)d

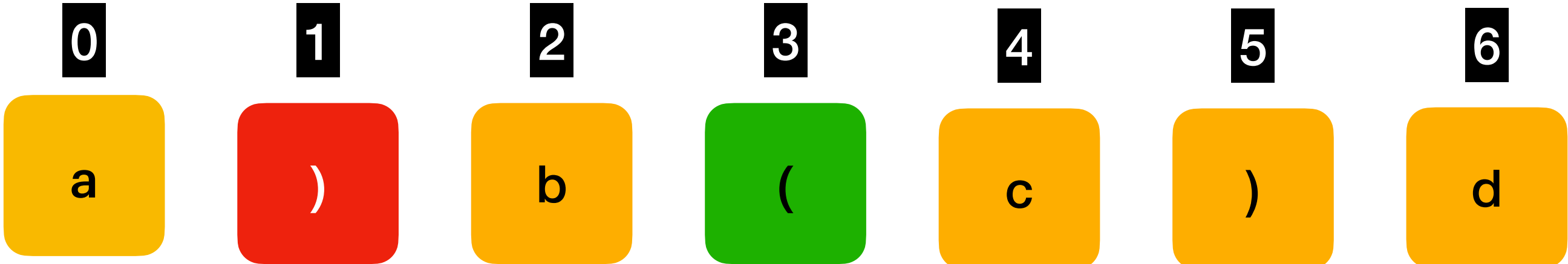
Index:1



Stack: []

InvalidParamsSet: [1]

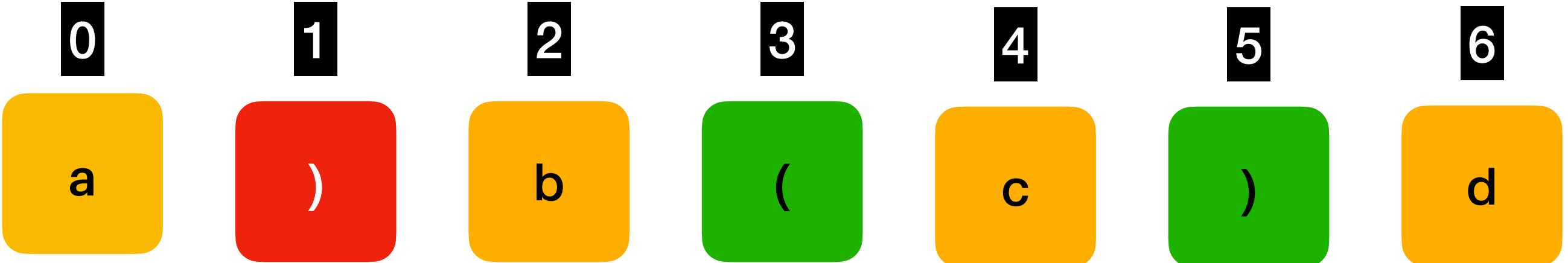
Index:3



Stack: [(]

InvalidParamsSet: [1]

Index:5

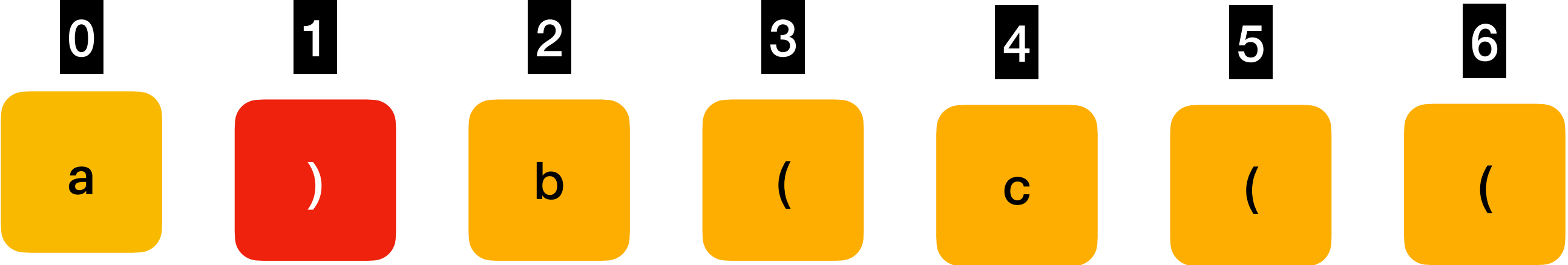


Stack: []

InvalidParamsSet: [1]

Input: a)b(c((

Index:1

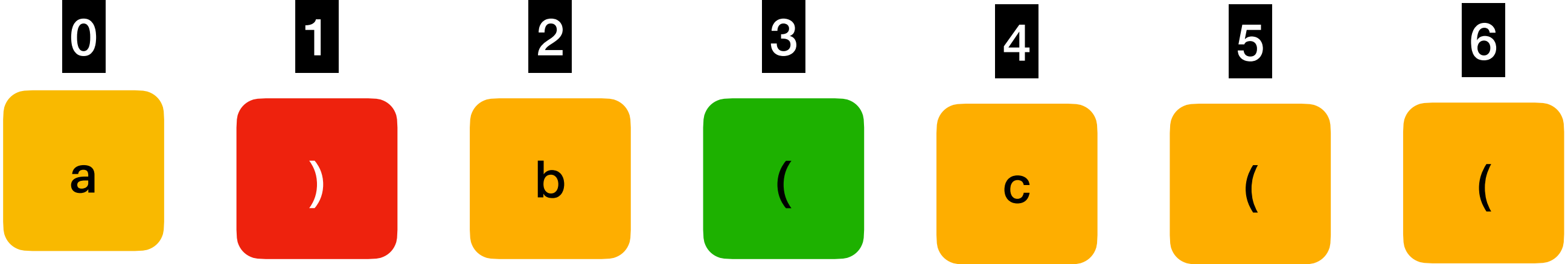


Stack: []

InvalidParamsSet: [1]

Algo : Clue
→ Copy invalid ')' into Set.
-> If the stack is not empty then it has invalid '(' indexes so copy into Set
→ Using set eliminate invalid index's then form a new String

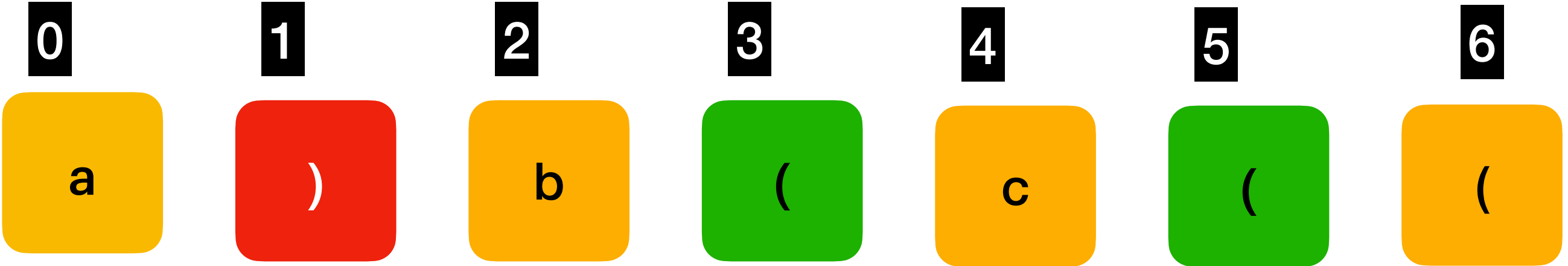
Index:3



Stack: [3]

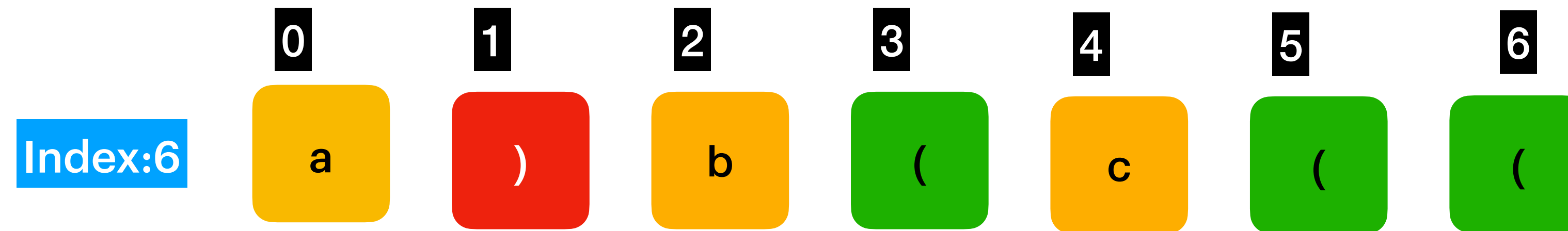
InvalidParamsSet: [1]

Index:5



Stack: [3,5]

InvalidParamsSet: [1]



Stack: [3,5,6]

InvalidParamsSet: [1]

As stack is not Empty → add all the index's to the InvalidParamsSet

InvalidParamsSet: [1,3,5,6]

After not considering invalid indexes then the String will be. → abc

Time Complexity : $O(n)$

Space Complexity : $O(n)$