

Description

Solution

Discuss (999+)

Submissions

394. Decode String

Medium 3843 188 Add to List Share

Given an encoded string, return its decoded string.

The encoding rule is: `k[encoded_string]`, where the *encoded_string* inside the square brackets is being repeated exactly *k* times. Note that *k* is guaranteed to be a positive integer.

You may assume that the input string is always valid; No extra white spaces, square brackets are well-formed, etc.

Furthermore, you may assume that the original data does not contain any digits and that digits are only for those repeat numbers, *k*. For example, there won't be input like `3a` or `2[4]`.

Example 1:

Input: s = "3[a]2[bc]"

Output: "aaabcbc"

Example 2:

Input: s = "3[a2[c]]"

Output: "accaccacc"

Example 3:

Input: s = "2[abc]3[cd]ef"

Output: "abccabccddcdcdcd"

Example 4:

Java

Autocomplete

```
1 class Solution {
2     public String decodeString(String s) {
3         Stack<Integer> intStack = new Stack<>();
4         Stack<StringBuilder> strStack = new Stack<>();
5         StringBuilder cur = new StringBuilder();
6         int k = 0;
7         for (char ch : s.toCharArray()) {
8             if (Character.isDigit(ch)) {
9                 k = k * 10 + ch - '0';
10            } else if (ch == '[') {
11                intStack.push(k);
12                strStack.push(cur);
13                cur = new StringBuilder();
14                k = 0;
15            } else if (ch == ']') {
16                StringBuilder tmp = cur;
17                cur = strStack.pop();
18                for (k = intStack.pop(); k > 0; --k) cur.append(tmp);
19            } else cur.append(ch);
20        }
21        return cur.toString();
22    }
23 }
```

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

"3[a]2[bc]"

Output

"aaabcbc"

Diff

Expected

"aaabcbc"

Console

How to create a testcase

Run Code

Submit