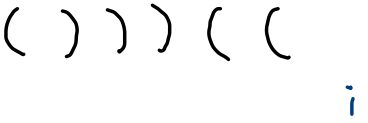
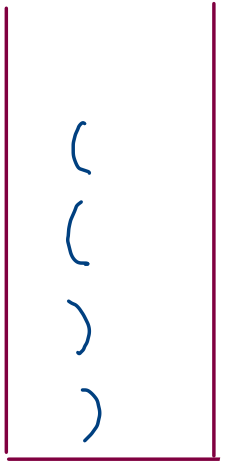
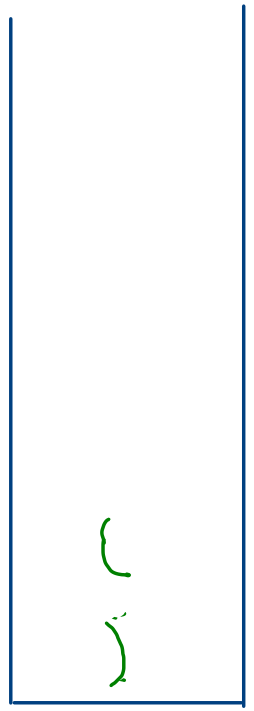
921. Minimum Add to Make Parentheses Valid

ans = 4







((()(()))(()()

no ')' bracket for me

no '(' bracket for me

1021. Remove Outermost Parentheses

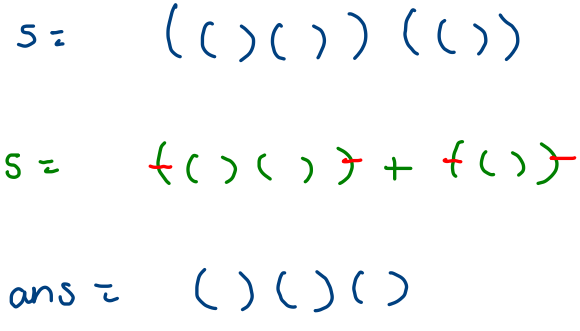
Given a valid parentheses string `s`, consider its primitive decomposition: `s = P1 + P2 + ... + Pk`, where `Pi` are primitive valid parentheses strings.

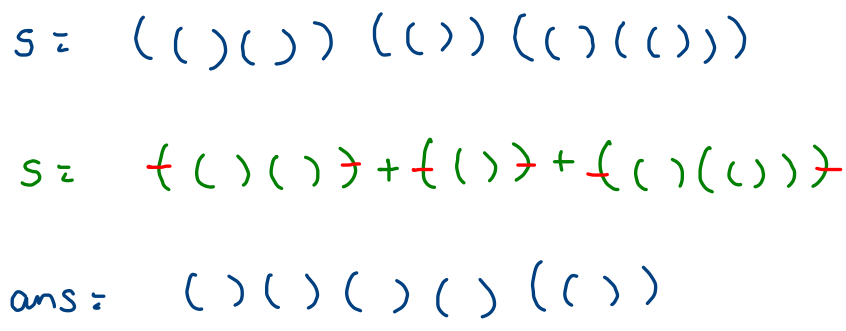
Return `s` *after removing the outermost parentheses of every primitive string in the primitive decomposition of* `s`.

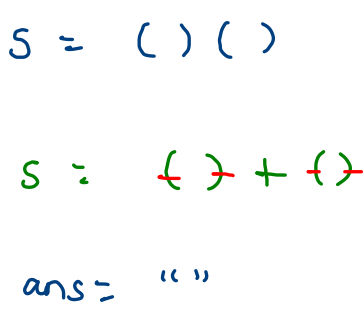
```
Input: s = "(()())(())"
Output: "()()()"
```

```
Input: s = "(()())(())(()(()))"
Output: "()()()()(())"
```

```
Input: s = "()()"
Output: ""
```



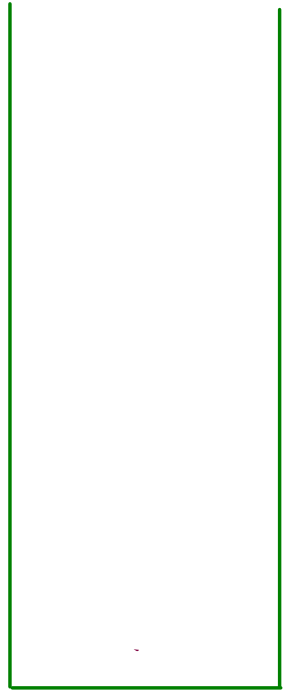




```
for(int i=0; i < s.length();i++) {
    char ch = s.charAt(i);

    if(ch == '(') {
        if(st.size() != 0) {
            sb.append('(');
        }
        st.push(ch);
    }
    else {
        st.pop();

        if(st.size() != 0) {
            sb.append(')');
        }
    }
}
```



s = (( )) (( ) (( )))
                          i

s = ~~(~~ ( ) ~~)~~ + ~~(~~ ( ) (( )) ~~)~~

sb = ( ) ( ) (( ))

856. Score of Parentheses

Given a balanced parentheses string `s`, return *the **score** of the string*.

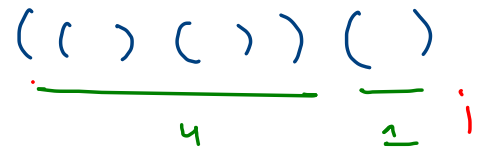
The **score** of a balanced parentheses string is based on the following rule:

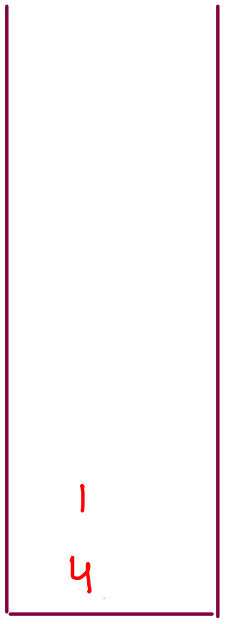
- `"()"` has score `1`.
- `AB` has score `A + B`, where `A` and `B` are balanced parentheses strings.
- `(A)` has score `2 * A`, where `A` is a balanced parentheses string.

( ) → 1

AB → score of A + score of B

(A) → 2 * score of A





ans = 1 + 4

st -> Integer

represent '(' using -1.

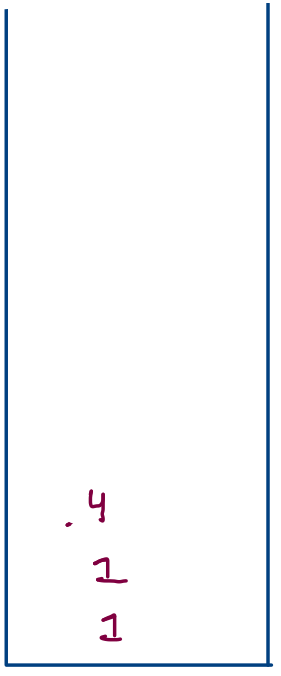
```
for(int i=0; i < s.length();i++) {
    char ch = s.charAt(i);

    if(ch == '(') {
        st.push(-1);
    }
    else {
        if(st.peek() == -1) {
            st.pop();
            st.push(1);
        }
        else {
            int sc = 0;
            while(st.peek() != -1) {
                sc += st.pop();
            }
            st.pop();
            st.push(2*sc);
        }
    }
}
```

```
int ans = 0;

while(st.size() > 0) {
    ans += st.pop();
}

return ans;
```



( ) ( ) (( ) ( ))

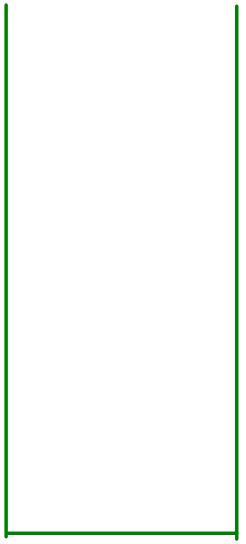
2 1 4

return = 4+1+1

ans = 6.

1190. Reverse Substrings Between Each Pair of Parentheses

Input: s = "(ed(et(oc))el)"
Output: "leetcode"
Explanation: First, we reverse the substring "oc", then "etco", and finally, the whole string.



(ed (et (oc)) el) practice

(ed (et co) el) practice

(ed octe el) practice

leetcodepractice