## **Remove Invalid Parenthesis**

- 1. You are given a string, which represents an expression having only opening and closing parenthesis.
- 2. You have to remove minimum number of parenthesis to make the given expression valid.
- 3. If there are multiple answers, you have to print all of them.

Note -> Check out the question video and write the recursive code as it is intended without changing signature. The judge can't

force you but intends you to teach a concept.

Input Format

A string containing only opening and closing parenthesis

**Output Format** 

Print all the Valid expressions.

Check the sample ouput and question video.

Constraints

```
1 <= length of string <= 20
```

Sample Input

()())()

Sample Output

(())()

()()()

```
def invalidParenthesis(string):
    minRemoval = getMin(string)
    ans = set()
    helper(string, ans, minRemoval)
    return ans

def helper(string, ans, x):
    if x == 0:
        if string not in ans and getMin(string) == 0:
            ans.add(string)
        return
```

```
for i in range(len(string)):
       left = string[:i]
       right = string[i + 1:]
       helper(left + right, ans, x - 1)
def getMin(string):
   stack = []
   for el in string:
       if el == '(':
           stack.append(el)
       else:
           if len(stack) == 0:
               stack.append(el)
           else:
               if stack[-1] == '(':
                   stack.pop()
               else:
                   stack.append(el)
    return len(stack)
print(invalidParenthesis('()())))
```