https://course.acciojob.com/idle?question=8eb53aa6-bb90-4a5c-899 5-b4a8383dc4ee

EASY

Max Score: 30 Points

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Remove Outermost Parentheses

A valid parentheses string is either empty "", "(" + A + ")", or A + B, where A and B are valid parentheses strings, and + represents string concatenation.

For example, "", "()", "(())()", and "(()(()))" are all valid parentheses strings.

A valid parentheses string s is primitive if it is nonempty, and there does not exist a way to split it into s = A + B, with A and B nonempty valid parentheses strings.

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

print s after removing the outermost parentheses of every primitive string in the primitive decomposition of s.

Input Format

The first line contains a single integer n(length of string)

Second line conatins the string s of size n

Output Format

print the modified string

Example 1

Input

```
(()())(())
```

Output

()()()

Explanation

The input string is "(()())(())", with primitive decomposition "(()())" + "(())".

After removing outer parentheses of each part, this is "()()" + "()" = "()()()".

Example 2

```
Input
```

```
18
(()())(())(()(()))
```

Output

()()()()())

Constraints

```
1 <= s.length <= 10^5
s[i] is either '(' or ')'.
```

s is a valid parentheses string.

Topic Tags

- Strings
- Stacks

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
     public static void main (String[] args) throws java.lang.Exception
           //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
    String str=s.next();
    Stack<Character> stk=new Stack<>();
    for(int i=0;i<str.length();i++)</pre>
     { char ch=str.charAt(i);
      // if(ch=='(') stk.push(ch);
     // else { char c=stk.pop();
   // if((stk.empty())==false) { System.out.print(c+""+ch);}}
if(ch=='(')
 if((stk.empty())==false) System.out.print(ch);
 stk.push(ch);
}
      else
{char c=stk.pop();
if((stk.empty())==false) { System.out.print(ch);}}
```

}
}