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Remove Parenthesis(p8)

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Status: **Accepted**

Test Case #0



Test Case #1



Test Case #2



Test Case #3



Test Case #4



Test Case #5

Submitted Code

Language: C++

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```
1 // Input : "a-(b+c)"
2 // Output : "a-b-c"
3
```

```
4 // Input : "a-(b-c-(d+e))-f"
5 // Output : "a-b+c+d+e-f"
6
7
8
9
10 #include <bits/stdc++.h>
11 using namespace std;
12
13
14 char* simplify(string str)
15 {
16     int len = str.length();
17
18
19     char* res = new char(len);
20     int index = 0, i = 0;
21
22
23     stack<int> s;
24     s.push(0);
25
26     while (i < len) {
27         if (str[i] == '+') {
28
29
30             if (s.top() == 1)
31                 res[index++] = '-';
32
33
34             if (s.top() == 0)
35                 res[index++] = '+';
36
37         } else if (str[i] == '-') {
38             if (s.top() == 1)
```

```
39         res[index++] = '+';
40     else if (s.top() == 0)
41         res[index++] = '-';
42 } else if (str[i] == '(' && i > 0) {
43     if (str[i - 1] == '-') {
44
45         int x = (s.top() == 1) ? 0 : 1;
46         s.push(x);
47     }
48
49     else if (str[i - 1] == '+')
50         s.push(s.top());
51 }
52
53
54     else if (str[i] == ')')
55         s.pop();
56
57     else
58         res[index++] = str[i];
59     i++;
60 }
61 return res;
62 }
63
64 int main()
65 {
66     string s1 ;
67     // string s2 ;
68     cin>>s1;
69     cout << simplify(s1) << endl;
70     // cout << simplify(s2) << endl;
71     return 0;
72 }
```

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