

Reduce a string of lowercase characters in range `asci i [ ‘a’ . . ‘z’ ]` by doing a series of operations. In each operation, select a pair of adjacent letters that match, and delete them.

Delete as many characters as possible using this method and return the resulting string. If the final string is empty, return `Empty String`

**Example.**

*s* = 'aab'

aab shortens to b in one operation: remove the adjacent a characters.

*s* = 'abba'

Remove the two 'b' characters leaving 'aa'. Remove the two 'a' characters to leave ". Return 'Empty String'.

Function Description

Complete the `superReducedString` function in the editor below.

`superReducedString` has the following parameter(s):

- string *s*: a string to reduce

Returns

- string: the reduced string or `Empty String`

Input Format

A single string, *s*.

Constraints

- $1 \leq \text{length of } s \leq 100$

```
13 # The function accepts STRING s as parameter.
14 #
15
16 def superReducedString(s):
17     string = list(s)
18     # to push all the distinct characters in the stack
19     stack = [s[0]]
20
21     # lambda expresison to compare stack top with current
22     stack_top = lambda x: x[len(x)-1]
23
24     for idx in range(1, len(string)):
25         # if stack is empty, we can't pair the current character with any others
26         if len(stack) != 0:
27             # if current doesn't pair with stack top, push it
28             if string[idx] != stack_top(stack):
29                 stack.append(string[idx])
30
31         else:
32             # if it does, pop it
33             stack.pop()
34     else:
35         # if stack is empty, push the current
36         stack.append(string[idx])
37
38     if len(stack) == 0:
39         # if all paired up, return empty string
40         return 'Empty String'
41
42     # else, return the string of remaining unpaired characters
43     return ''.join(stack)
44
```

Line: 42 Col: 63

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## Congratulations

You solved this challenge. Would you like to challenge your friends?



Test case 9



Test case 10



Test case 11



Test case 12



Test case 13



Test case 14



Test case 15



Compiler Message

Success

Input (stdin)

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1 aaabccddd

Expected Output

Download

1 abd