Answer the question

Given bracket sequence: [((())()(())]] Can this sequence be considered correct? If the answer to the previous question is “no”, then what needs to be changed in it to make it correct?

Answer: The given bracket sequence "[((())()(())]]" is not correct because it contains more closing brackets than opening brackets. To make it correct, we need to balance the number of opening and closing brackets.

To correct the sequence, we need to remove one closing bracket. Specifically, we need to remove the closing bracket at the end of the sequence.

So, the corrected sequence would be: [((())()(()))].

I will explain with index below:

Index:

0[ 1( 2( 3( 3) 2) 4( 4) 5( 6( 6) 5) 1) 0]

0 1 2 3 4 5 6 7 8 9 10 11 12 13

At index:

0: opening bracket "[" for 0

1: opening bracket "(" for 1

2: opening bracket "(" for 2

3: opening bracket "(" for 3

4: closing bracket ")" matching the opening bracket at index 3

5: closing bracket ")" matching the opening bracket at index 2

6: opening bracket "("

7: closing bracket ")" matching the opening bracket at index 4

8: opening bracket "(" for 5

9: opening bracket "(" for 6

10 closing bracket ")” for 6

11 closing bracket ")” for 5

12 closing bracket “)” for 1

13 closing bracket "]” for 0