

This is 6 types of bracket in question.

1st is balanced and 2nd is not.

![A picture containing text, whiteboard

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Here 2nd is also not balanced as opening and closing inside another bracket.

Now use stack for this.

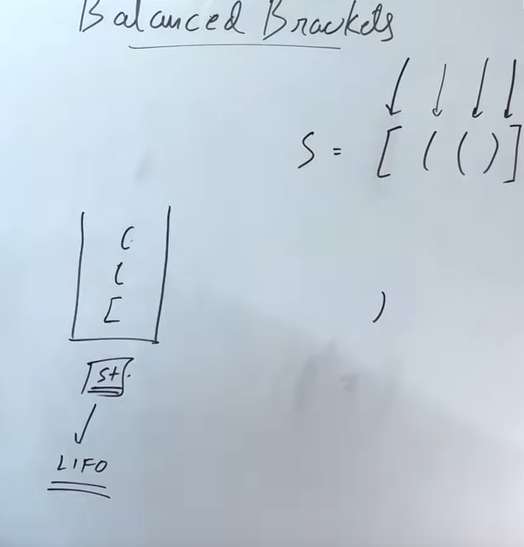
If opening bracket use push and closing use pop.

At closing see if stack not empty it mean there might be closing.

Now take the top and see if same as close bracket then yes then its good. If not then next step.

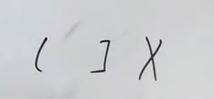
And when we move out means stack should be empty.

This was for above balanced.

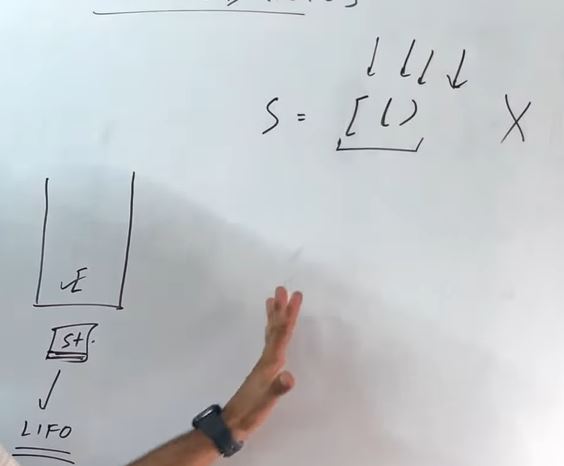


Here for not balanced.

Same logic here.

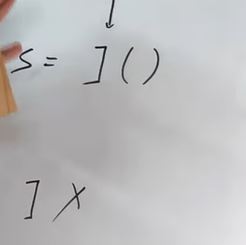


Here this is not opposite hence not balanced.



Here at end of stack it is not mepty.

1 more case.



Code:

Text, letter

Description automatically generated

<https://takeuforward.org/data-structure/check-for-balanced-parentheses/>