Northern Michigan University (Marquette Co, MI)

Time: 15 minutes

Write code for the Kotlin method

Your android activity (in Kotlin) contains a buttons named myButt and two textviews named mInput and mOutput. Their ids in the layout file are, respectively, button, ITV, and OTV.

Write that portion of the onCreate() method (not the whole method) that connects the above widgets to the layout and programs the button so that when the button is clicked, it copies over the input text to the output textfield EXCEPT for parenthesized stuff. Parentheses can be nested, make you discard the ENTIRE parenthesized portion.

For example,

`I ate a (granny smith) apple` BECOMES `I ate a  apple`.

Note that `(granny smith)` was removed, but nothing else was, so now there are two spaces between `a` and `apple` .

`Johnny Quick says (3X2 (9YZ) 4A)!` BECOMES `Johnny Quick says !`

Note that the entire parenthesized expression is gone, including the nested parentheses.

`)))))` doesn't change. Those right parentheses are unmatched and are not inside or part of any expression.

Hint: you might try using a counter that increments whenever it sees a left parenthesis and decrements whenever it sees a right.

```kotlin
override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        myButt = findViewById(R.id.button1)
        mInput = findViewById (R.id.ITV)
        mOutput = findViewById (R.id.OTV)

        myButt!!.setOnClickListener {
            var ct = 0
            var op = ""
            for (ch in mInput!!.text) {
             if (ct==0) {
              if (ch=='(') ct++
              else op += ch
             } else {
              if (ch=='(') ct++
              else if (ch==')') ct--
             }
            }
```

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Quiz 4   Friday 14 February 2025 4:00 P.M. EST

```
            mOutput!!.text = op
        }
}
```