## REMOVE OUTER PARANTHESIS

In this problem, we are given a string which has a number of valid paranthesis! Our job is to remove the outer paranthesis of each valid pair and return the output.

Eg: Criven: (()()((1))
Output: ()()()

Output: (1)(1)(1)(1)(1)

Brute force solution involves the use of a Stack Optimally, we can do this using one counter only we iterate through the given String; if given String; it element is (, we check for valance. If valance>0, our paranthesis, is not outer, so we all it to result. If the ith paranthesis is ), we decrease valance by 1. If balance is >0, it means our paranthesis is not an outer one and we all it to result.

Pseudocode: vemove Outer Paranthesis (str, N) {

```
res ult
balance = 0
for(i = 0 \rightarrow N-1)
if (str(i) = = bb)
if (balance > 0)
             result += Str (i)
         halance +=1
         balance == 1
         if (balance > 0)
           result + = str[i]
```