class Solution:

def calculate(self, s: str) -> int:

number = 0

sign\_value = 1

result = 0

operations\_stack = []

for c in s:

if c.isdigit():

number = number \* 10 + int(c)

elif c in "+-":

result += number \* sign\_value

sign\_value = -1 if c == '-' else 1

number = 0

elif c == '(':

operations\_stack.append(result)

operations\_stack.append(sign\_value)

result = 0

sign\_value = 1

elif c == ')':

result += sign\_value \* number

result \*= operations\_stack.pop()

result += operations\_stack.pop()

number = 0

return result + number \* sign\_value