# 224. Basic Calculator

## SOLUTION IN JAVA

class Solution {

public int calculate(String s) {

int ans = 0;

int num = 0;

int sign = 1;

Deque<Integer> stack = new ArrayDeque<>();

stack.push(sign);

for (final char c : s.toCharArray())

if (Character.isDigit(c))

num = num \* 10 + (c - '0');

else if (c == '(')

stack.push(sign);

else if (c == ')')

stack.pop();

else if (c == '+' || c == '-') {

ans += sign \* num;

sign = (c == '+' ? 1 : -1) \* stack.peek();

num = 0;

}

return ans + sign \* num;

}

}