#15 days dsa coding challenge

#Day 8

#Leetcode 227

Basic Calculator ii

Solution:

class Solution {

public:

int calculate(string s) {

int n = s.size();

vector<int> stack;

int cur = 0;

char operation = '+';

for (int i = 0; i < n; ++i) {

char c = s[i];

if (isdigit(c)) cur = cur \* 10 + (c - '0');

if ((!isdigit(c) && c != ' ') || i == n - 1) {

if (operation == '+') stack.push\_back(cur);

else if (operation == '-') stack.push\_back(-cur);

else if (operation == '\*') {

int last = stack.back();

stack.pop\_back();

stack.push\_back(last \* cur);

} else if (operation == '/') {

int last = stack.back();

stack.pop\_back();

stack.push\_back(last / cur);

}

operation = c;

cur = 0;

}

}

int result = 0;

for (int num : stack) result += num;

return result;

}

};