class Solution {

public:

int myAtoi(string str) {

int len = str.length();

if (len == 0) {

return 0;

}

long int ans = 0;

bool valid = false;

int sign = 1;

int idx = 0;

while (idx < len && str[idx] == ' ') {

++idx;

}

if (idx < len && str[idx] == '-') {

sign = -1;

++idx;

}

else if (idx < len && str[idx] == '+') {

sign = 1;

++idx;

}

while (idx < len && str[idx] >= '0' && str[idx] <= '9') {

valid = true;

ans = ans \* 10 + str[idx] - '0';

if(sign \* ans > INT\_MAX){

return INT\_MAX;

}else if(sign \* ans < INT\_MIN){

return INT\_MIN;

}

++idx;

}

if (valid) {

return static\_cast<int>(sign \* ans);

}

return 0;

}

};