function solution1() {

//c++ 이용

#include <iostream>

//1번

using namespace std;

int a[101][2];

void pre(int N){

if(N == -1) return;

cout << (char)(N + 'A');

pre(a[N][0]);

pre(a[N][1]);

}

void inO(int N){

if(N == -1) return;

inO(a[N][0]);

cout << (char)(N + 'A');

inO(a[N][1]);

}

void post(int N){

if(N == -1) return;

post(a[N][0]);

post(a[N][1]);

cout << (char)(N + 'A');

}

int main(){

int count;

cin >> count;

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

char x, y, z;

cin >> x >> y >> z;

x = x - 'A';

if(y == '.'){

a[x][0] = -1;

}else{

a[x][0] = y - 'A';

}

if(z == '.'){

a[x][1] = -1;

}else{

a[x][1] = z - 'A';

}

}

pre(0);

cout << "\n";

inO(0);

cout << "\n";

post(0);

return 0;

}

}

//2번

function solution2\_2() {

let a = Number(gets().trim());

let purpose = gets().split(' ');

gets();

let ansarr = Array.from(Array(2), () => Array(3).fill(0));

ansarr[0][0] = purpose[0];

ansarr[1][0] = purpose[1];

for (let i = 1; i < a; i++) {

let temp = gets().split(' ');

let cit = temp[0];

temp.splice(0, 1);

if (temp.includes(ansarr[0][0]) && ansarr[0][1] == 0) {

ansarr[0][1] = cit;

ansarr[0][2] = 'Korea';

}

if (temp.includes(ansarr[1][0]) && ansarr[1][1] == 0) {

ansarr[1][1] = cit;

ansarr[1][2] = 'Korea';

}

}

let ans = 0;

if (ansarr[0][2] === ansarr[1][2]) {

ans = ansarr[0][2];

if (ansarr[0][1] === ansarr[1][1]) {

ans = ansarr[0][1];

//입력된 두 구가 같을경우

if (ansarr[0][0] === ansarr[1][0]) {

ans = ansarr[0][0];

}

}

}

print(ans);

}

//3번

function solution3() {

gets();

let nodes = gets().split(' ');

let target = Number(gets());

let ansarr = [];

nodes.forEach((v, i) => {

let temp = [v, i, Math.abs(target - Number(v))];

ansarr.push(temp);

})

ansarr.sort((a, b) => {

if (a[2] != b[2]) {

return a[2] - b[2];

} else {

return a[1] - b[1];

}

})

let i = Number(gets());

let ans = [];

for (let j = 0; j < i; j++) {

ans.push(ansarr[j][0]);

}

//이게 왜 되지?

print(ans.join(' '));

}