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|  | **윈도우프로그래밍**  **LAB 03** |
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**# 실습 문제 1**

#1 balanced.cpp 프로그램 소스(수정한 결과 소스)

#include <iostream>

#include <strstream>

#include "myStack.h"

using namespace std;

char line[100];

void check\_balance(istrstream& is) {

bool flag = true;

char tmp;

int idx = 0;

struct Stack s1;

create(s1);

while ((tmp =is.get())!=-1) {

cout << tmp;

if ((tmp=='(')||(tmp=='[')||(tmp=='{')) {push(s1, tmp);}

else if ((tmp == ')') || (tmp == ']') || (tmp == '}')) {

if (isempty(s1)) { cout << " : MISMATCHING!!" << endl; return; }

else {

switch (tmp){

case ')':

if (s1.store[s1.top - 1] == '(') { flag = true; }

else { flag = false; }

break;

case ']':

if (s1.store[s1.top - 1] == '[') { flag = true; }

else { flag = false; }

break;

case '}':

if (s1.store[s1.top - 1] == '{') { flag = true; }

else { flag = false; }

break;

}

}

if (flag) {pop(s1);}

else { cout << " : MISMATCHING!!" << endl; return; }

}

}

if (isempty(s1)) {cout << " : BALANCED!!" << endl;}

else {cout << " : MISMATCHING!!" << endl;}

}

int main() {

char c;

bool result;

while (cin.get(line, 100)) {

istrstream is(line);

check\_balance(is);

cin.get(c);

is.clear();

}

return 0;

}

#2 실행 화면

