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| sym01_s | **윈도우프로그래밍**  **LAB 04** |
| **분반** | **001** |
| **학번** | **2010044** |
| **이름** | **박진희** |

**# 실습 문제 1**

#1 main.cpp 프로그램 소스(수정한 결과 소스)

#include "Stack.h"

#include <iostream>

int main() {

CStack s;

CStack s2(3);

s.push(s, 2.0); s.push(s, 11.0);

cout << "popped value = " << s.pop(s) << endl;

cout << "popped value = " << s.pop(s) << endl;

s2.push(s2, 3.0); s2.push(s2, 12.0); s2.push(s2, 13.0); s2.push(s2, 14.0);

cout << "popped value = " << s.pop(s2) << endl;

cout << "popped value = " << s.pop(s2) << endl;

}

#2 Stack.cpp 프로그램 소스(수정한 결과 소스)

#include "Stack.h"

#include <iostream>

CStack::CStack() {

store = new double[100];

capacity = 100;

top = 0;

}

CStack::CStack(int size) {

store = new double[size];

capacity = size;

top = 0;

}

CStack::~CStack() {

if (store != NULL)

delete(store);

}

double CStack::pop(CStack& s) {

if (s.top > 0)

return s.store[--s.top];

else {

cerr << "Error: pop from an empty stack" << endl;

return 0;

}

}

void CStack::push(CStack& s, double val) {

if (s.top < s.capacity) {

cout << "push " << val << endl;

s.store[s.top++] = val;

}

else

cerr << "Error: stack full, can't push" << endl;

}

#3 Stack.h 프로그램 소스(수정한 결과 소스)

#include <iostream>

using namespace std;

class CStack

{

double\* store;

int capacity;

int top;

public:

CStack();

CStack(int);

double pop(CStack & s);

~CStack();

void push(CStack &s, double val);

};

#4 실행 화면

