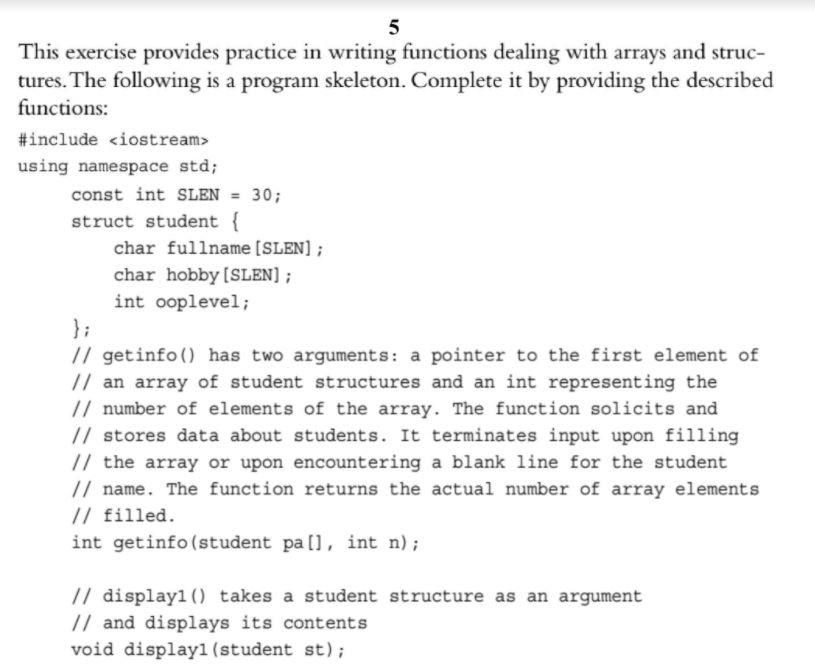
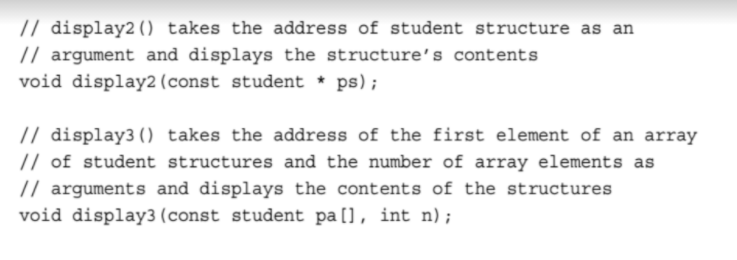
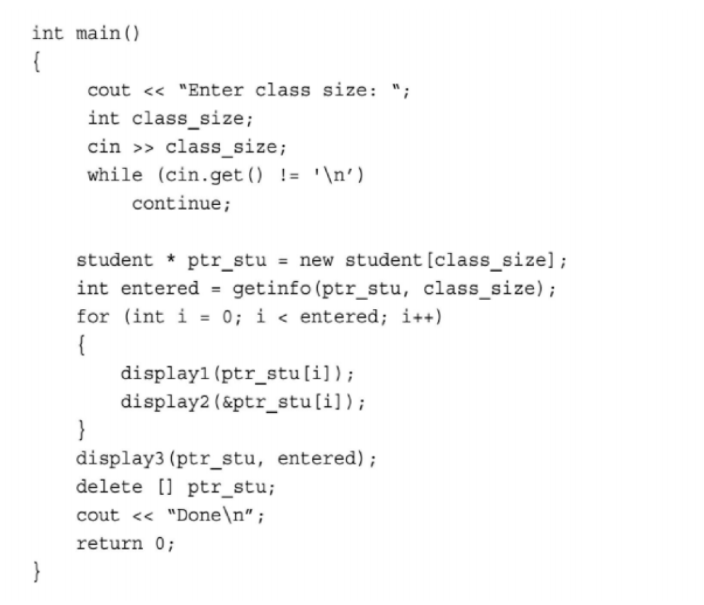
Rudenko Ruslan, SE-TE 2.01

Task:







Code:

#include <iostream>

using namespace std;

const int SLEN = 30;

struct student {

char fullname[SLEN];

char hobby[SLEN];

int ooplevel;

};

// getinfo() has two arguments: a pointer to the first element of

// an array of student structures and an int representing the

// number of elements of the array. The function solicits and

// stores data about students. It terminates input upon filling

// the array or upon encountering a blank line for the student

// name. The function returns the actual number of array elements

// filled.

int getinfo(student pa[], int n);

// display1() takes a student structure as an argument

// and displays its contents

void display1(student st);

// display2() takes the address of student structure as an

// argument and displays the structure’s contents

void display2(const student\* ps);

// display3() takes the address of the first element of an array

// of student structures and the number of array elements as

// arguments and displays the contents of the structures

void display3(const student pa[], int n);

int main() {

cout << "Enter class size: ";

int class\_size;

cin >> class\_size;

while (cin.get() != '\n')

continue;

student\* ptr\_stu = new student[class\_size];

int entered = getinfo(ptr\_stu, class\_size);

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

display1(ptr\_stu[i]);

display2(&ptr\_stu[i]);

}

display3(ptr\_stu, entered);

delete[] ptr\_stu;

cout << "Done\n";

return 0;

}

int getinfo(student pa[], int n) {

int numStudents = 0;

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

cout << "Enter student " << numStudents + 1 << " name: ";

cin.getline(pa[i].fullname, SLEN);

if (pa[i].fullname[0] == '\0') {

break;

}

cout << "Enter student " << numStudents + 1 << " hobby: ";

cin.getline(pa[i].hobby, SLEN);

cout << "Enter student " << numStudents++ << " oopLevel: ";

(cin >> pa[i].ooplevel).get();

}

return numStudents;

}

void display1(student st) {

cout << "Name: " << st.fullname << endl;

cout << "Hobby: " << st.hobby << endl;

cout << "ooPLevelL " << st.ooplevel << endl;

}

void display2(const student\* ps) {

cout << "Name: " << ps->fullname << endl;

cout << "Hobby: " << ps->hobby << endl;

cout << "ooPLevelL " << ps->ooplevel << endl;

}

void display3(const student pa[], int n) {

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

display1(pa[i]);

}

}

Results

