# ДОДАТОК Г

(Вихідний код ModulesStriuk)

**… / ModulesStriuk / main.cpp**

#include "ModulesStriuk.h"

using namespace std;

regEnrollment\* initializeDefaultRoot(fstream &file)

{

regEnrollment \*regEn = new regEnrollment;

strcpy(regEn->firstName, "Ivan");

strcpy(regEn->lastName, "Ivanov");

strcpy(regEn->patronymic, "Ivanovich");

strcpy(regEn->carBrand, "Toyota");

strcpy(regEn->gradYear, "2012");

strcpy(regEn->dateDay, "12");

strcpy(regEn->dateMonth, "12");

strcpy(regEn->dateYear, "2022");

strcpy(regEn->govNumber, "AA0000AA");

strcpy(regEn->additions, "Without front left door");

regEn->ptr = nullptr;

file.write((char\*)&\*regEn, sizeof(regEnrollment));

return(regEn);

}

void readFromFile(fstream &file, regEnrollment \*rootNode)

{

rootNode->ptr = nullptr;

file.read((char\*)&\*rootNode, sizeof(regEnrollment));

if (file.peek() != -1) {

rootNode->ptr = new regEnrollment;

readFromFile(file, rootNode->ptr);

}

}

void searchInDatabase(regEnrollment \*rootNode)

{

regEnrollment \*bufEnrollment = rootNode;

string bufString;

cout << "Enter government number, which you wanna find: ";

cin >> bufString;

bufString.substr(0, GOV\_NUMBER\_SIZE);

do {

string bufGovNumber = bufEnrollment->govNumber;

size\_t foundStr = bufGovNumber.find(bufString);

if (foundStr != string::npos) {

cout << bufEnrollment->firstName << " " << bufEnrollment->lastName << " " << bufEnrollment->patronymic << ": "

<< bufEnrollment->govNumber << endl;

}

bufEnrollment = bufEnrollment->ptr;

} while (bufEnrollment != nullptr);

}

**… / ModulesStriuk / ModulesStriuk.h**

#ifndef MODULESSTRIUK\_H\_INCLUDED

#define MODULESSTRIUK\_H\_INCLUDED

#include "struct\_type\_project\_1.h"

#include <fstream>

#include <iostream>

#include <string>

#include <cstring>

using namespace std;

regEnrollment\* initializeDefaultRoot(fstream &file);

void readFromFile(fstream &file, regEnrollment \*rootNode);

void searchInDatabase(regEnrollment \*rootNode);

#endif // MODULESSTRIUK\_H\_INCLUDED