Белорусский государственный университет информатики и радиоэлектроники

Кафедра вычислительных методов и программирования

Лабораторная работа № 6

Тема: Программирование с использованием файлов

Вариант 6

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Принял:

Минск 2014

**Индивидуальные задания. Вариант 6.**

**Текст программы.**

#include<iostream>

#include<iomanip>

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

#include<string.h>

using namespace std;

FILE \*fl;

struct str

{

char a[20];

char c[20];

char g[10];

char b[5];

} book[100];

char n1[100],n2[100],b[10];

int n,i;

int main()

{

cout<<"Vvedite imia nachalnogo faila"<<endl;

cin>>n1;

fl=fopen(n1,"w");

cout<<"Vvedite kolichestvo knig"<<endl;

cin>>n;

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

{

cout<<"Vvedite avtora: ";

cin>>book[i].a;

cout<<"Vvedite nazvanie: ";

cin>>book[i].c;

cout<<"Vvedite datu izdaniia: ";

cin>>book[i].g;

cout<<"Vvedite kolichestvo stranic: ";

cin>>book[i].b;

fwrite(&book[i],sizeof(str),1,fl);

}

fclose(fl);

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

cout<<setw(20)<<book[i].a<<setw(20)<<book[i].c<<setw(8)<<book[i].g<<setw(8)<<book[i].b<<endl;

cout<<"Vvedite datu otscheta: ";

cin>>b;

if(b[3]=='0') {b[3]='9';b[2]-=1;}

else b[3]-=1;

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

if (strcmp(book[i].g,b)>-1)

cout<<book[i].c<<endl;

FILE \*ft;

cout<<"Vvedite imia konechnogo faila"<<endl;

cin>>n2;

ft = fopen(n2,"w");

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

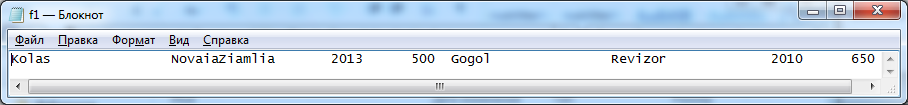
if (strcmp(book[i].g,b)>-1)

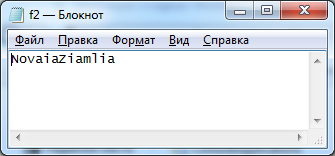
fputs(book[i].c, ft);

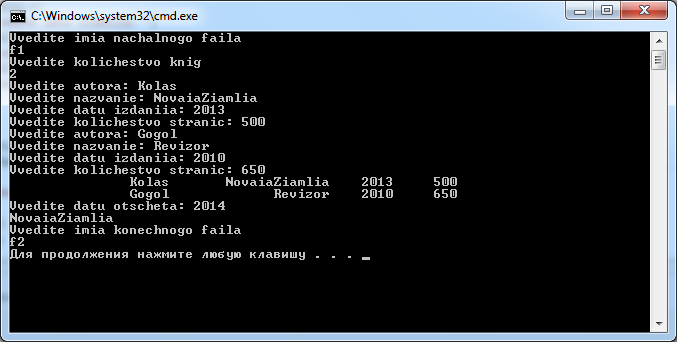
fclose(ft);

return 0;

}







Блок схема алгоритма.

Начало программы

Конец программы

d=

n1, n

Y=

x, y, s, d

x=x+h;

i=0;i<n;i++

book[i].a, book[i].c, book[i].g, book[i].b

,

i=0;i<n;i++

book[i].a, book[i].c, book[i].g, book[i].b

,

b

b[3]-=1;

b[3]='9';b[2]-=1;

b[3]=='0'

i=0;i<n;i++

strcmp(book[i].g,b)>-1

book[i].c

n2

i=0;i<n;i++

strcmp(book[i].g,b)>-1

fputs(book[i].c, ft)

#include<iostream>

#include<iomanip>

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

#include<string.h>

using namespace std;

FILE \*fl;

struct str

{

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char b[5];

} book[100];

char n1[100],n2[100],b[10];

int n,i;

int main()

{

cout<<"Vvedite imia nachalnogo faila"<<endl;

cin>>n1;

fl=fopen(n1,"w+");

cout<<"Vvedite kolichestvo knig"<<endl;

cin>>n;

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

{

cout<<"Vvedite avtora: ";

cin>>book[i].a;

cout<<"Vvedite nazvanie: ";

cin>>book[i].c;

cout<<"Vvedite datu izdaniia: ";

cin>>book[i].g;

cout<<"Vvedite kolichestvo stranic: ";

cin>>book[i].b;

fwrite(&book[i],sizeof(str),1,fl);

}

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

cout<<setw(20)<<book[i].a<<setw(20)<<book[i].c<<setw(8)<<book[i].g<<setw(8)<<book[i].b<<endl;

cout<<"Vvedite datu otscheta: ";

cin>>b;

if(b[3]=='0') {b[3]='9';b[2]-=1;}

else b[3]-=1;

int z;

for (i=z=0;i<n;i++)

if (strcmp(book[i].g,b)>-1) z++;

str boo;

fseek(fl,(z-1)\*sizeof(str),0);

fread(&boo,sizeof(str),1,fl);

cout<<boo.c<<endl;

fclose(fl);

return 0;

}