# A elaborat: Bazaochi Dumitru, IS11Z

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# PROIECT DE PROGRAME NR. 6. STRUCTURI. FISIERE BINARE. FISIERE PROIECT

# Tema: Grupa de studenți.

## I. Formularea problemei

De efectuat următoarele operaţii conform variantei:

1. De organizat datele iniţiale în formă de structură.
2. Operaţii de actualizare:
   1. De înscris datele iniţiale într-un fişier binar dintr-un fișier text (de la tastatură).
   2. De adăugat date în fişier.
   3. De afişat conţinutul fişierului iniţial / intermediar / final.
   4. De modificat datele din fişier (opțional).
3. Operaţii de serviciu:
   1. De aranjat datele din fişier în ordinea indicată (după un câmp) corespunzător tematicii.
   2. De aranjat datele din fişier în ordinea indicată (după 2 câmpuri) corespunzător tematicii.
   3. De şters datele din fişier corespunzător tematicii;
   4. De calculat o caracteristică a datelor concrete și de adăugat în fişier.
4. Operaţii de listare – de afişat 3-5 liste tematice.
5. De organizat definirea funcţiilor în fişiere-sursă separate, utilizând fişierul proiect.
6. La efectuarea operaţiilor de aranjare sau ştergere a datelor din fişier de aplicat liste dinamice.

## II. Studiu preliminar

Clasificarea pe grupe este următoarea:

1. De efectuat optiunile din itemul Formularea Problemei.

## III. Programul

#include <iostream>

#include <stdlib.h>

#include <conio.h>

#include <fstream>

#include <stdio.h>

#include <string.h>

using namespace std;

void Creare();

void Afisare(char nume[]);

void Adaugare();

void AdaugareZodieNumarPiatra();

void AranjareAlfabetica();

void AranjareZodieNume();

void AranjareGrupaNume();

int GenerareNote(int x[]);

void ListaNume(char sir[]);

void ListaGrupa(char sir[]);

void ListaZodie(int semestru);

void ListaLuna(int l);

void Linia(char sting, char line, char mijloc, char drept);

struct Data

{

int zi; int luna; int an;

};

struct Student

{

int id;

char nume[21];

Data dn;

int semes;

char grupa[12];

int note[6];

double media;

};

struct Nod

{

Student info;

struct Nod \*next;

};

int main()

{

int optiune;

char sir[12];

int semestru;

int l;

system("color F0");

do

{

system ("cls");

cout << "Proiect nr. 6 elaborat de Bazaochi Dumitru" << endl;

cout << "Aplicarea fisierelor binare: " << endl;

cout << "1. De inscris datele dintr-un fisier binar intr-un fisier text." << endl;

cout << "2. De afisat continutul fisierului." << endl;

cout << "3. De adaugat datele intr-un fisier." << endl;

cout << "4. De adaugat denumirea grupei." << endl;

cout << "5. Aranjare alfabetica." << endl;

cout << "6. Aranjarea dupa semestru." << endl;

cout << "7. Cautarea persoanelor dupa nume." << endl;

cout << "8. Lista persoanelor dintr-o grupa." << endl;

cout << "9. Lista persoanelor nascuti intr-o luna anumita." << endl;

cout << "0. Stop " << endl;

cout << " \n \t Alege (de la 0 la 9) ---> ";

cin >> optiune;

switch (optiune)

{

case 1: Creare(); break;

case 2: Afisare("f13\_zodiac.in"); break;

case 3: Adaugare(); break;

case 4: AdaugareZodieNumarPiatra(); break;

case 5: AranjareAlfabetica(); Afisare("f13\_zodiac1.out"); break;

case 6: AranjareZodieNume(); Afisare("f13\_zodiac2.out"); break;

case 7:

printf("Indicati numele: "); fflush(stdin); gets(sir);

ListaNume(sir);

break;

case 8:

printf("Indicati numele Grupei: "); fflush(stdin); gets(sir);

ListaGrupa(sir);

break;

case 9:

printf("Indicati luna: "); scanf("%d", &l);

ListaLuna(l);

break;

}

} while(optiune);

return 0;

}

int GenerareNote(int x[]){

int i = 0;

while(i < 6){

x[i] = rand() % 5 + 5;

i++;

}

}

void Creare()

{

ifstream ft;

ofstream f;

Student z;

char prenume[21];

ft.open("f13\_zodiac.txt");

f.open("f13\_zodiac.in", ios::binary);

while (ft >> z.id >> z.nume >> prenume >> z.dn.zi >> z.dn.luna >> z.dn.an)

{

strcat(z.nume, " "); strcat(z.nume, prenume);

strcpy(z.grupa, " ");

z.semes = rand() % 2 + 1;

GenerareNote(z.note);

z.media =double(z.note[0]+z.note[1]+z.note[2]+z.note[3]+z.note[4]+z.note[5])/(double)6;

f.write(reinterpret\_cast<char\*>(&z), sizeof(Student));

}

printf("\n Datele sunt citite.");

getch();

ft.close(); f.close();

}

void ListaNume(char sir[])

{

ifstream f;

int n = 0;

Student z;

f.open("f13\_zodiac.in", ios::binary);

printf("Lista Persoanelor cu numele care incep cu literele %s \n", sir);

Linia(201, 205, 209, 187);

printf("%cNr%c ID%c Numele/prenume %cData nast.%cSemestru%c Grupa %4c Notele %5cMedia%c\n",

186, 179, 179, 179, 179, 179, 179, 179, 186);

Linia(199, 196, 197, 182);

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

if (strnicmp(z.nume, sir, strlen(sir)) == 0)

{

n++;

printf("%c%2d%c%3d%c%-16.16s%c%02d.%02d.%4d%c %d %c %-10.10s%c %d %d %d %d %d %d %c %.2f%c\n",

186, n, 179, z.id, 179, z.nume, 179, z.dn.zi, z.dn.luna, z.dn.an,

179, z.semes, 179, z.grupa, 179, z.note[0], z.note[1],z.note[2],z.note[3],z.note[4],z.note[5], 179, z.media, 186);

}

}

Linia(200, 205, 207, 188);

fflush(stdin); getch();

f.close();

}

void ListaGrupa(char sir[])

{

ifstream f;

int n = 0;

Student z;

f.open("f13\_zodiac.in", ios::binary);

printf("Lista Persoanelor cu numele care incep cu literele %s \n", sir);

Linia(201, 205, 209, 187);

printf("%cNr%c ID%c Numele/prenume %cData nast.%cSemestru%c Grupa %4c Notele %5cMedia%c\n",

186, 179, 179, 179, 179, 179, 179, 179, 186);

Linia(199, 196, 197, 182);

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

if (strnicmp(z.grupa, sir, strlen(sir)) == 0)

{

n++;

printf("%c%2d%c%3d%c%-16.16s%c%02d.%02d.%4d%c %d %c %-10.10s%c %d %d %d %d %d %d %c %.2f%c\n",

186, n, 179, z.id, 179, z.nume, 179, z.dn.zi, z.dn.luna, z.dn.an,

179, z.semes, 179, z.grupa, 179, z.note[0], z.note[1],z.note[2],z.note[3],z.note[4],z.note[5], 179, z.media, 186);

}

}

Linia(200, 205, 207, 188);

fflush(stdin); getch();

f.close();

}

void ListaLuna(int l)

{

ifstream f;

int n = 0;

Student z;

f.open("f13\_zodiac.in", ios::binary);

printf("Lista Persoanelor nascute in luna %d \n", l);

Linia(201, 205, 209, 187);

printf("%cNr%c ID%c Numele/prenume %cData nast.%cSemestru%c Grupa %4c Notele %5cMedia%c\n",

186, 179, 179, 179, 179, 179, 179, 179, 186);

Linia(199, 196, 197, 182);

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

if (z.dn.luna == l)

{

n++;

printf("%c%2d%c%3d%c%-16.16s%c%02d.%02d.%4d%c %d %c %-10.10s%c %d %d %d %d %d %d %c %.2f%c\n",

186, n, 179, z.id, 179, z.nume, 179, z.dn.zi, z.dn.luna, z.dn.an,

179, z.semes, 179, z.grupa, 179, z.note[0], z.note[1],z.note[2],z.note[3],z.note[4],z.note[5], 179, z.media, 186);

}

}

Linia(200, 205, 207, 188);

fflush(stdin); getch();

f.close();

}

//Actualizare

void Linia(char sting, char line, char mijloc, char drept)

{

int i;

printf("%c", sting);

for (i=1; i<=2; i++) printf("%c",line); printf("%c",mijloc); //nr

for (i=1; i<=3; i++) printf("%c",line); printf("%c",mijloc); //id

for (i=1; i<=16; i++) printf("%c",line); printf("%c",mijloc); //nume

for (i=1; i<=10; i++) printf("%c",line); printf("%c",mijloc); //zi luna an

for (i=1; i<=8; i++) printf("%c",line); printf("%c",mijloc); //disciplina

for (i=1; i<=11; i++) printf("%c",line); printf("%c",mijloc); //disciplina

for (i=1; i<=13; i++) printf("%c",line); printf("%c",mijloc); //inaltime

for (i=1; i<=5; i++) printf("%c",line); printf("%c",drept); //categorie

printf("\n");

}

void Afisare(char nume[])

{

ifstream f;

int n = 0;

Student z;

f.open(nume, ios::binary);

printf("Lista Persoanelor \n");

Linia(201, 205, 209, 187);

printf("%cNr%c ID%c Numele/prenume %cData nast.%cSemestru%c Grupa %4c Notele %5cMedia%c\n",

186, 179, 179, 179, 179, 179, 179, 179, 186);

Linia(199, 196, 197, 182);

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

n++;

printf("%c%2d%c%3d%c%-16.16s%c%02d.%02d.%4d%c %d %c %-10.10s%c %d %d %d %d %d %d %c %.2f%c\n",

186, n, 179, z.id, 179, z.nume, 179, z.dn.zi, z.dn.luna, z.dn.an,

179, z.semes, 179, z.grupa, 179, z.note[0], z.note[1],z.note[2],z.note[3],z.note[4],z.note[5], 179, z.media, 186);

}

Linia(200, 205, 207, 188);

fflush(stdin); getch();

f.close();

}

int GenerareCodZodiac(int z, int l)

{

int k;

switch(l)

{

case 1: if(z<20) k = 10; else k = 11; break;

case 2: if(z<19) k = 11; else k = 12; break;

case 3: if(z<21) k = 12; else k = 1; break;

case 4: if(z<20) k = 1; else k = 2; break;

case 5: if(z<21) k = 2; else k = 3; break;

case 6: if(z<21) k = 3; else k = 4; break;

case 7: if(z<23) k = 4; else k = 5; break;

case 8: if(z<23) k = 5; else k = 6; break;

case 9: if(z<23) k = 6; else k = 7; break;

case 10: if(z<23) k = 7; else k = 8; break;

case 11: if(z<22) k = 8; else k = 9; break;

case 12: if(z<22) k = 9; else k = 10; break;

}

return k;

}

void Adaugare()

{

fstream f;

Student z;

f.open("f13\_zodiac.in", ios::binary | ios::app);

printf("Dati numele urmatoarei persoane: ");

fflush(stdin); gets(z.nume);

while (strlen(z.nume) > 0)

{

printf("ID Persoanei: "); scanf("%d", &z.id);

printf("Data nasterii: "); scanf("%d %d %d", &z.dn.zi, &z.dn.luna, &z.dn.an);

strcpy(z.grupa, " ");

z.semes = rand() % 2 + 1;

GenerareNote(z.note);

z.media =double(z.note[0]+z.note[1]+z.note[2]+z.note[3]+z.note[4])/(double)5;

f.write(reinterpret\_cast<char\*>(&z), sizeof(Student));

printf("Dati numele urmatoarei persoane: ");

fflush(stdin); gets(z.nume);

}

f.close();

}

void AdaugareZodieNumarPiatra()

{

fstream f;

int i, k, n = 0;

Student z;

f.open("f13\_zodiac.in", ios::binary | ios::out | ios::in);

long ofset = f.tellg();

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

k = GenerareCodZodiac(z.dn.zi, z.dn.luna);

switch(k)

{

case 1: strcpy(z.grupa, "IS11Z");break;

case 2: strcpy(z.grupa, "MI11Z"); break;

case 3: strcpy(z.grupa, "TP11Z"); break;

case 4: strcpy(z.grupa, "CP11Z"); break;

case 5: strcpy(z.grupa, "DU11Z"); break;

case 6: strcpy(z.grupa, "RT11Z"); break;

case 7: strcpy(z.grupa, "UV11Z"); break;

case 8: strcpy(z.grupa, "IM11Z"); break;

case 9: strcpy(z.grupa, "TU11Z"); break;

case 10: strcpy(z.grupa, "RU11Z"); break;

case 11: strcpy(z.grupa, "VI11Z"); break;

case 12: strcpy(z.grupa, "FG11Z"); break;

}

f.seekg(ofset);

f.write(reinterpret\_cast<char\*>(&z), sizeof(Student));

ofset = f.tellg();

f.seekg(ofset);

}

printf("\n S-au generat datele!"); getch();

f.close();

}

void AranjareAlfabetica()

{

ifstream f;

ofstream g;

int n = 0;

Student z;

f.open("f13\_zodiac.in", ios::binary);

g.open("f13\_zodiac1.out", ios::binary);

Nod \*prim, \*ultim, \*curent, \*nou, \*prec;

f.read(reinterpret\_cast<char\*>(&z), sizeof(Student));

prim = new Nod;

prim->info = z; prim->next = 0;

ultim = prim;

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

nou = new Nod;

nou->info = z;

if(stricmp(z.nume, prim->info.nume) < 0)

{

nou->next = prim;

prim = nou;

}

else

{

prec = prim;

for(curent = prim->next; curent && (stricmp(z.nume, curent->info.nume) > 0);

curent = curent->next)

prec = curent;

if(curent)

{

nou->next = curent;

prec->next = nou;

}

else // adaug la sfirsit

{

nou->next = 0;

ultim->next = nou;

ultim = nou;

}

}

}

for(curent = prim; curent; curent = curent->next)

{

z = curent->info;

g.write(reinterpret\_cast<char\*>(&z), sizeof(Student));

}

printf("Lista este aranjata. Apasa orice tasta pentru a continua.");

getch();

f.close(); g.close();

}

void AranjareZodieNume() //aranjeaza dupa semestru

{

ifstream f;

ofstream g;

int n = 0, aux;

Student z;

f.open("f13\_zodiac.in", ios::binary);

g.open("f13\_zodiac2.out", ios::binary);

char sp1[40], sp2[40], spp[40];

Nod \*prim, \*ultim, \*curent, \*nou, \*prec;

f.read(reinterpret\_cast<char\*>(&z), sizeof(Student));

prim = new Nod;

prim->info = z; prim->next = 0;

ultim = prim;

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

nou = new Nod;

nou->info = z;

if(nou->info.semes < prim->info.semes)

{

nou->next = prim; prim = nou;

}

else

{

prec = prim; curent = prim->next;

while(curent && (nou->info.semes > curent->info.semes))

{

prec = curent;

curent = curent->next;

}

if(curent)

{

nou->next = curent; prec->next = nou;

}

else // adaug la sfirsit

{

nou->next = 0;

ultim->next = nou;

ultim = nou;

}

}

}

for(curent = prim; curent; curent = curent->next)

{

z = curent->info;

g.write(reinterpret\_cast<char\*>(&z), sizeof(Student));

}

printf("Lista este aranjata. Apasa orice tasta pentru a continua.");

getch();

f.close(); g.close();

}

void AranjareGrupaNume()

{

ifstream f;

ofstream g;

int n = 0, aux;

Student z;

f.open("f13\_zodiac.in", ios::binary);

g.open("f13\_zodiac3.out", ios::binary);

char sp1[40], sp2[40], spp[40];

Nod \*prim, \*ultim, \*curent, \*nou, \*prec;

f.read(reinterpret\_cast<char\*>(&z), sizeof(Student));

prim = new Nod;

prim->info = z; prim->next = 0;

ultim = prim;

while (f.read(reinterpret\_cast<char\*>(&z), sizeof(Student)))

{

nou = new Nod;

nou->info = z;

sprintf(sp1, "%s %s", z.grupa, z.nume);

sprintf(spp, "%s %s", prim->info.grupa, prim->info.nume);

if(stricmp(sp1, spp) < 0)

{

nou->next = prim; prim = nou;

}

else

{

prec = prim; curent = prim->next;

if(curent)

sprintf(sp2, "%s %s", curent->info.grupa, curent->info.nume);

while(curent && (stricmp(sp1, sp2) > 0))

{

prec = curent;

curent = curent->next;

if(curent)

sprintf(sp2, "%s %s", curent->info.grupa, curent->info.nume);

}

if(curent)

{

nou->next = curent; prec->next = nou;

}

else // adaug la sfirsit

{

nou->next = 0;

ultim->next = nou;

ultim = nou;

}

}

}

for(curent = prim; curent; curent = curent->next)

{

z = curent->info;

g.write(reinterpret\_cast<char\*>(&z), sizeof(Student));

}

printf("Lista este aranjata. Apasa orice tasta pentru a continua.");

getch();

f.close(); g.close();

}

## IV. Rezultatele sugestive

Proiect nr. 6 elaborat de Bazaochi Dumitru

Aplicarea fisierelor binare:

1. De inscris datele dintr-un fisier binar intr-un fisier text.

2. De afisat continutul fisierului.

3. De adaugat datele intr-un fisier.

4. De adaugat denumirea grupei.

5. Aranjare alfabetica.

6. Aranjarea dupa semestru.

7. Cautarea persoanelor dupa nume.

8. Lista persoanelor dintr-o grupa.

9. Lista persoanelor nascuti intr-o luna anumita.

0. Stop

* Alege (de la 0 la 9) ---> 1

Datele sunt citite.

* Alege (de la 0 la 9) ---> 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | ID | Numele/prenume | Data nast. | Semestru | Grupa | Notele | Media |
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* Alege (de la 0 la 9) ---> 3

Dati numele urmatoarei persoane: Bazaochi Dumitru

ID Persoanei: 999

Data nasterii: 8 8 2000

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* Alege (de la 0 la 9) ---> 4

S-au generat datele!

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* Alege (de la 0 la 9) ---> 5

Lista este aranjata. Apasa orice tasta pentru a continua. Lista Persoanelor

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | ID | Numele/prenume | Data nast. | Semestru | Grupa | Notele | Media |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65 | 218  254  229  633  16  764  223  999  765  361  380  776  777  222  224  261  272  225  760  753  226  617  992  755  743  262  682  680  675  623  744  260  237  661  611  628  749  612  634  782  610  249  530  699  582  761  661  633  719  939  242  913  268  244  256  585  772  775  531  762  528  592  620  654  666 | Ababii Raisa  Adamciuc Alexand  Adamovici Nina  Ancuta Alexandru  Arnaut Ruslan  Badali Nicolae  Banari Vlad  Bazaochi Dumitru  Bazeliuc Anatoli  Bejenari Gavril  Bogaciuc Marina  Bradu Andrei  Bradu Aurel  Caldari Vasile  Carbuneanu Anton  Cater Veaceslava  Cazacu Eduochia  Ceaus Maxim  Cernea Grigore  Cojocari Alisa  Cozma Denis  Dovbenco ana  Dragan Anatol  Fedoruta Sergiu  Gacic Rodica  Grib Mihail  Iavorschi Tatiana  Ilchiu Ion  Jacota Clara  Jardan Mariana  Marian Eduard  Melnic Alena  Minut Anatolie  Muntean Ion  Munteanu Victor  Nalban Vera  Ocrain Alexandru  Ocrain Ruslana  Onea Serghei  Pacuc Lucia  Plesca Afanasie  Popov Marina  Prisneac Silvia  Radu Ana  Resteu Octavian  Rudco Vasile  Rusica Alex  Samson Nicoleta  Sandiuc Vitalie  Scobiola Zinovia  Seban Mila  Sinocovschi Ivan  Stoica Valeriu  Tabac Snejana  Taban Anatolie  Tcaci Claudia  Tiltu Andrei  Tirnovan Petru  Turanschi Valeri  Turcanu Tudor  Uja Ion  Uritu Eugenia  Ursache Efim  Vremea Vladimir  Zama Emilia | 02.03.2000  06.08.1999  12.03.2000  12.11.2000  15.12.1999  16.07.2001  16.01.2000  08.08.2000  23.02.2001  23.11.2000  03.03.2000  16.08.2000  03.10.2000  12.02.1999  16.02.2000  06.05.2001  07.09.2001  13.05.2000  14.12.2000  23.06.2000  22.07.2000  22.07.2000  05.12.2001  14.08.1999  12.10.1999  12.03.2000  10.10.1999  12.08.1999  27.11.2000  27.11.2000  27.07.2000  30.05.2000  25.09.1999  15.06.2001  14.05.2001  12.12.2001  05.06.2001  11.10.2000  14.10.2001  16.11.1999  16.02.2000  14.05.2000  21.11.2001  21.06.2000  14.01.1999  30.05.2000  14.09.2001  02.01.2001  13.05.2000  18.10.2001  15.10.2000  19.12.2000  12.06.2001  14.05.2000  23.11.1999  16.04.2001  03.06.2000  15.05.2001  17.07.2000  13.08.2000  29.04.2000  16.09.2000  12.09.1999  09.05.2000  08.04.2000 | 2  1  2  1  2  1  1  2  1  1  2  1  2  1  1  2  1  1  1  2  1  2  2  1  2  1  1  2  1  2  1  1  2  2  2  2  2  2  1  2  1  1  2  2  2  2  2  2  2  1  2  2  1  1  2  1  2  1  2  1  2  1  1  1  1 | FG11Z  DU11Z  FG11Z  IM11Z  TU11Z  CP11Z  RU11Z  DU11Z  FG11Z  TU11Z  FG11Z  DU11Z  UV11Z  VI11Z  VI11Z  MI11Z  RT11Z  MI11Z  TU11Z  CP11Z  CP11Z  IS11Z  TU11Z  DU11Z  UV11Z  FG11Z  UV11Z  DU11Z  TU11Z  MI11Z  DU11Z  TP11Z  UV11Z  TP11Z  MI11Z  TU11Z  TP11Z  UV11Z  UV11Z  IM11Z  VI11Z  MI11Z  IM11Z  CP11Z  RU11Z  TP11Z  RT11Z  RU11Z  MI11Z  UV11Z  UV11Z  TU11Z  TP11Z  MI11Z  TU11Z  IS11Z  TP11Z  MI11Z  CP11Z  DU11Z  MI11Z  RT11Z  RT11Z  MI11Z  IS11Z | 7 9 5 9 9 8  7 9 5 5 6 7  6 5 7 7 6 6  8 9 9 9 7 5  8 8 8 7 9 8  7 5 9 7 8 7  7 8 7 7 6 6  9 9 5 6 9 8  6 5 6 6 5 7  6 8 7 6 6 5  5 9 9 6 8 8  8 7 5 8 6 7  8 5 8 8 7 5  7 9 7 7 7 9  5 7 6 6 8 9  6 9 8 6 5 5  8 6 5 7 9 8  7 9 5 9 8 6  9 8 5 7 7 8  7 8 8 5 9 9  8 8 9 6 6 8  8 5 6 7 5 5  9 7 8 8 5 6  6 5 7 6 7 7  7 9 9 9 9 9  5 6 6 6 8 9  5 8 6 7 6 5  9 7 9 6 6 8  6 6 9 7 6 7  5 7 5 5 8 9  5 8 7 7 9 7  5 5 9 5 5 6  8 8 9 8 9 9  7 5 8 6 7 7  8 6 9 5 8 7  7 5 5 8 8 9  8 7 5 5 9 9  9 6 7 9 9 7  7 9 9 6 9 6  7 5 8 5 6 7  9 8 5 7 6 6  6 6 8 8 5 5  8 8 8 8 7 6  8 7 5 9 9 6  8 9 8 9 6 9  9 6 7 5 5 6  7 8 7 5 8 6  8 6 7 6 9 6  8 9 8 7 6 6  7 8 9 5 7 8  6 8 7 8 8 7  5 8 6 6 7 9  5 6 6 9 5 6  7 6 8 6 6 5  6 8 5 9 8 9  7 8 9 9 6 5  9 5 5 5 8 6  6 7 5 5 5 9  9 8 9 7 7 7  7 6 9 5 7 5  9 8 8 5 8 7  5 8 8 5 6 8  5 9 6 8 9 7  9 6 5 5 8 6  9 7 9 8 9 9 | 7.83  6.50  6.17  7.83  8.00  7.17  6.83  7.60  5.83  6.33  7.50  6.83  6.83  7.67  6.83  6.50  7.17  7.33  7.33  7.67  7.50  6.00  7.17  6.33  8.67  6.67  6.17  7.50  6.83  6.50  7.17  5.83  8.50  6.67  7.17  7.00  7.17  7.83  7.67  6.33  6.83  6.33  7.50  7.33  8.17  6.33  6.83  7.00  7.33  7.33  7.33  6.83  6.17  6.33  7.50  7.33  6.33  6.17  7.83  6.50  7.50  6.67  7.33  6.50  8.50 |

* Alege (de la 0 la 9) ---> 6

Lista este aranjata. Apasa orice tasta pentru a continua. Lista Persoanelor

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | ID | Numele/prenume | Data nast. | Semestru | Grupa | Notele | Media |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65 | 254  775  762  744  760  776  620  666  654  249  610  634  675  682  939  592  633  585  268  361  755  765  764  244  262  260  272  222  226  225  224  223  999  772  782  719  777  743  633  661  699  612  628  749  661  611  623  680  913  531  16  380  630  528  582  992  617  753  761  256  242  237  261  229  218 | Adamciuc Alexand  Tirnovan Petru  Turcanu Tudor  Marian Eduard  Cernea Grigore  Bradu Andrei  Ursache Efim  Zama Emilia  Vremea Vladimir  Popov Marina  Plesca Afanasie  Onea Serghei  Jacota Clara  Iavorschi Tatiana  Scobiola Zinovia  Uritu Eugenia  Ancuta Alexandru  Tcaci Claudia  Stoica Valeriu  Bejenari Gavril  Fedoruta Sergiu  Bazeliuc Anatoli  Badali Nicolae  Tabac Snejana  Grib Mihail  Melnic Alena  Cazacu Eduochia  Caldari Vasile  Cozma Denis  Ceaus Maxim  Carbuneanu Anton  Banari Vlad  Bazaochi Dumitru  Tiltu Andrei  Pacuc Lucia  Sandiuc Vitalie  Bradu Aurel  Gacic Rodica  Samson Nicoleta  Rusica Alex  Radu Ana  Ocrain Ruslana  Nalban Vera  Ocrain Alexandru  Muntean Ion  Munteanu Victor  Jardan Mariana  Ilchiu Ion  Sinocovschi Ivan  Turanschi Valeri  Arnaut Ruslan  Bogaciuc Marina  Prisneac Silvia  Uja Ion  Resteu Octavian  Dragan Anatol  Dovbenco ana  Cojocari Alisa  Rudco Vasile  Taban Anatolie  Seban Mila  Minut Anatolie  Cater Veaceslava  Adamovici Nina  Ababii Raisa | 06.08.1999  15.05.2001  13.08.2000  27.07.2000  14.12.2000  16.08.2000  12.09.1999  08.04.2000  09.05.2000  14.05.2000  16.02.2000  14.10.2001  27.11.2000  10.10.1999  18.10.2001  16.09.2000  12.11.2000  16.04.2001  12.06.2001  23.11.2000  14.08.1999  23.02.2001  16.07.2001  14.05.2000  12.03.2000  30.05.2000  07.09.2001  12.02.1999  22.07.2000  13.05.2000  16.02.2000  16.01.2000  08.08.2000  03.06.2000  16.11.1999  13.05.2000  03.10.2000  12.10.1999  02.01.2001  14.09.2001  21.06.2000  11.10.2000  12.12.2001  05.06.2001  15.06.2001  14.05.2001  13.05.1999  12.08.1999  19.12.2000  17.07.2000  15.12.1999  03.03.2000  21.11.2001  29.04.2000  14.01.1999  05.12.2001  24.03.2000  23.06.2000  30.05.2000  23.11.1999  15.10.2000  25.09.1999  06.05.2001  12.03.2000  02.03.2000 | 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2 | DU11Z  MI11Z  DU11Z  DU11Z  TU11Z  DU11Z  RT11Z  IS11Z  MI11Z  MI11Z  VI11Z  UV11Z  TU11Z  UV11Z  UV11Z  RT11Z  IM11Z  IS11Z  TP11Z  TU11Z  DU11Z  FG11Z  CP11Z  MI11Z  FG11Z  TP11Z  RT11Z  VI11Z  CP11Z  MI11Z  VI11Z  RU11Z  DU11Z  TP11Z  IM11Z  MI11Z  UV11Z  UV11Z  RU11Z  RT11Z  CP11Z  UV11Z  TU11Z  TP11Z  TP11Z  MI11Z  MI11Z  DU11Z  TU11Z  CP11Z  TU11Z  FG11Z  IM11Z  MI11Z  RU11Z  TU11Z  IS11Z  CP11Z  TP11Z  TU11Z  UV11Z  UV11Z  MI11Z  FG11Z  FG11Z | 7 9 5 5 6 7  6 7 5 5 5 9  7 6 9 5 7 5  5 8 7 7 9 7  9 8 5 7 7 8  8 7 5 8 6 7  5 9 6 8 9 7  9 7 9 8 9 9  9 6 5 5 8 6  6 6 8 8 5 5  9 8 5 7 6 6  7 9 9 6 9 6  6 6 9 7 6 7  5 8 6 7 6 5  7 8 9 5 7 8  5 8 8 5 6 8  8 9 9 9 7 5  7 8 9 9 6 5  5 6 6 9 5 6  6 8 7 6 6 5  6 5 7 6 7 7  6 5 6 6 5 7  7 5 9 7 8 7  7 6 8 6 6 5  5 6 6 6 8 9  5 5 9 5 5 6  8 6 5 7 9 8  7 9 7 7 7 9  8 8 9 6 6 8  7 9 5 9 8 6  5 7 6 6 8 9  7 8 7 7 6 6  9 9 5 6 9 8  9 5 5 5 8 6  7 5 8 5 6 7  8 9 8 7 6 6  8 5 8 8 7 5  7 9 9 9 9 9  8 6 7 6 9 6  7 8 7 5 8 6  8 7 5 9 9 6  9 6 7 9 9 7  7 5 5 8 8 9  8 7 5 5 9 9  7 5 8 6 7 7  8 6 9 5 8 7  5 7 5 5 8 9  9 7 9 6 6 8  5 8 6 6 7 9  9 8 9 7 7 7  8 8 8 7 9 8  5 9 9 6 8 8  8 8 8 8 7 6  9 8 8 5 8 7  8 9 8 9 6 9  9 7 8 8 5 6  8 5 6 7 5 5  7 8 8 5 9 9  9 6 7 5 5 6  6 8 5 9 8 9  6 8 7 8 8 7  8 8 9 8 9 9  6 9 8 6 5 5  6 5 7 7 6 6  7 9 5 9 9 8 | 6.50  6.17  6.50  7.17  7.33  6.83  7.33  8.50  6.50  6.33  6.83  7.67  6.83  6.17  7.33  6.67  7.83  7.33  6.17  6.33  6.33  5.83  7.17  6.33  6.67  5.83  7.17  7.67  7.50  7.33  6.83  6.83  7.60  6.33  6.33  7.33  6.83  8.67  7.00  6.83  7.33  7.83  7.00  7.17  6.67  7.17  6.50  7.50  6.83  7.83  8.00  7.50  7.50  7.50  8.17  7.17  6.00  7.67  6.33  7.50  7.33  8.50  6.50  6.17  7.83 |

* Alege (de la 0 la 9) ---> 7

Indicati numele: a

Lista Persoanelor cu numele care incep cu literele a

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | ID | Numele/penume | Data nast. | Semestru | Grupa | Notele | Media |
| 1  2  3  4  5 | 218  254  229  633  16 | Ababii Raisa  Adamciuc Alexand  Adamovici Nina  Ancuta Alexandru  Arnaut Ruslan | 02.03.2000  06.08.1999  12.03.2000  12.11.2000  15.12.1999 | 2  1  2  1  2 | FG11Z  DU11Z  FG11Z  IM11Z  TU11Z | 7 9 5 9 9 8  7 9 5 5 6 7  6 5 7 7 6 6  8 9 9 9 7 5  8 8 8 7 9 8 | 7.83  6.50  6.17  7.83  8.00 |

* Alege (de la 0 la 9) ---> 8

Indicati numele Grupei: IM

Lista Persoanelor cu numele care incep cu literele IM

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | ID | Numele/penume | Data nast. | Semestru | Grupa | Notele | Media |
| 1  2  3 | 530  633  782 | Prisneac Silvia  Ancuta Alexandru  Pacuc Lucia | 21.11.2001  12.11.2000  16.11.1999 | 2  1  2 | IM11Z  IM11Z  IM11Z | 8 8 8 8 7 6  8 9 9 9 7 5  7 5 8 5 6 7 | 7.50  7.83  6.33 |

* Alege (de la 0 la 9) ---> 9

Indicati luna: 2

Lista Persoanelor nascute in luna 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | ID | Numele/penume | Data nast. | Semestru | Grupa | Notele | Media |
| 1  2  3  4 | 224  222  765  610 | Carbuneanu Anton  Caldari Vasile  Bazeliuc Anatoli  Plesca Afanasie | 16.02.2000  12.02.1999  23.02.2001  16.02.2000 | 1  1  1  1 | VI11Z  VI11Z  FG11Z  VI11Z | 5 7 6 6 8 9  7 9 7 7 7 9  6 5 6 6 5 7  9 8 5 7 6 6 | 6.83  7.67  5.83  6.83 |

## V. Concluzii

Dupa efectuarea acestui laborator sub numarul 6, am utilizat lucrul cu fisiere text si fisiere binare, lucrul cu liste tematice, dinamice, aranjarea datelor intr-o anumita ordine, afisarea listelor initiale, intermediare si finale.