Bài 1:

#define \_CRT\_NONSTDC\_NO\_WARNINGS

#define \_CRT\_SECURE\_NO\_WARNINGS

#include <stdio.h>

#include <conio.h>

#include <string.h>

#define MAX 100

struct date

{

int d;

int m;

int y;

};

struct NV

{

int maso;

char ho[15];

char ten[15];

date ns;

date ngayct;

int luong;

char noisinh[300];

char diachi [300];

};

void docfile (FILE \*&f, NV dsnv [], int &n);

void nhapntn (date &ntn);

void xuatntn (date ntn);

void nhap1NV (NV &nv);

void xuat1NV (NV nv);

void nhapdsnv (NV dsnv[], int &n);

void xuatdsnv (NV dsnv[], int n);

void themnv (NV dsnv[], NV &x, int &n, int &k);

int timMSNV (NV dsnv[], int n, int y);

int timtenNV (NV dsnv[], int n, char \*z);

void swap (NV &x, NV &y);

void sapxepluong\_giamdan (NV dsnv[], int n);

void xoanhanvien (NV dsnv[], int &n, int t);

int main ()

{

FILE \*f;

NV dsnv[MAX];

NV x;

int n;

int k;

int y;

int t;

int chon;

docfile(f, dsnv, n);

do

{

printf("1.Xuat danh sach nhan vien\n");

printf("2.Them vao 1 nhan vien\n");

printf("3.Tim nhan vien theo ma so\n");

printf("4.Tim 1 nhan vien theo ten\n");

printf("5.In ra bang luong cua cac nhan vien theo thu tu giam dan\n");

printf("6.Xoa 1 nhan vien\n");

printf("Chon chuc nang: "); scanf\_s("%d", &chon);

switch (chon)

{

case 1:

{

xuatdsnv(dsnv, n);

break;

}

case 2:

{

themnv(dsnv, x, n, k);

break;

}

case 3:

{

printf("\nNhap ma so nhan vien can tim: "); scanf\_s("%d", &y);

int b = timMSNV(dsnv, n, y);

if (timMSNV(dsnv, n, y) == -1)

{

printf("Khong tim thay\n");

}

else

{

printf("Tim thay nhan vien thu %d\n", b + 1);

xuat1NV(dsnv[b]);

}

break;

}

case 4:

{

char z[20];

printf("\nNhap ten nhan vien can tim: ");

fflush(stdin);

fgets(z, sizeof(z), stdin);

int b = timtenNV(dsnv, n, z);

if (timtenNV(dsnv, n, z) == -1)

{

printf("Khong tim thay\n");

}

else

{

printf("Tim thay nhan vien thu %d\n", b + 1);

xuat1NV(dsnv[b]);

}

break;

}

case 5:

{

sapxepluong\_giamdan(dsnv, n);

printf("\n\tDANH SACH NHAN VIEN SAU KHI SAP XEP\n");

xuatdsnv(dsnv, n);

break;

}

case 6:

{

printf("\nNhap ma so nhan vien muon xoa: "); scanf\_s("%d", &t);

xoanhanvien(dsnv, n, t);

break;

}

}

}

while (chon != 0);

return 0;

getch ();

}

void docfile (FILE \*&f, NV dsnv [], int &n)

{

f = fopen("dataB4.txt", "rt");

fscanf(f, "%d", &n);

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

{

fscanf(f, "%d", &dsnv[i].maso);

fscanf(f, "%s ", dsnv[i].ho);

fgets(dsnv[i].ten, 15, f);

fscanf(f, "%d ", &dsnv[i].ns.d);

fscanf(f, "%d", &dsnv[i].ns.m);

fscanf(f, "%d", &dsnv[i].ns.y);

fscanf(f, "%d", &dsnv[i].ngayct.d);

fscanf(f, "%d", &dsnv[i].ngayct.m);

fscanf(f, "%d", &dsnv[i].ngayct.y);

fscanf(f, "%d ", &dsnv[i].luong);

fgets(dsnv[i].noisinh, 300, f);

fgets(dsnv[i].diachi, 300, f);

}

}

void nhapntn (date &ntn)

{

do

{

printf("\t\t- Nhap ngay: ");

scanf\_s("%d", &ntn.d);

}

while (ntn.d < 0 || ntn.d > 31);

do

{

printf("\t\t- Nhap thang: ");

scanf\_s("%d", &ntn.m);

}

while (ntn.m < 0 || ntn.m > 12);

printf("\t\t- Nhap vao nam: ");

scanf\_s("%d", &ntn.y);

}

void xuatntn (date ntn)

{

printf("%d-", ntn.d);

printf("%d-", ntn.m);

printf("%d\n", ntn.y);

}

void nhap1NV (NV &nv)

{

printf("\tNhap ma so: ");

scanf\_s("%d", &nv.maso);

printf("\tNhap ho: ");

fflush(stdin);

gets(nv.ho);

printf("\tNhap ten: ");

fflush(stdin);

gets(nv.ten);

printf("\tNgay sinh: \n");

nhapntn(nv.ns);

printf("\tNhap noi sinh: ");

fflush(stdin);

gets(nv.noisinh);

printf("\tNhap dia chi: ");

fflush(stdin);

gets(nv.diachi);

printf("\tNhap luong: "); scanf\_s("%d", &nv.luong);

printf("\tNhap ngay cong tac: \n");

nhapntn(nv.ngayct);

}

void xuat1NV (NV nv)

{

printf("\tMa so nhan vien: %d\n", nv.maso);

printf("\tHo: %s\n", nv.ho);

printf("\tTen: %s", nv.ten);

printf("\tNgay sinh: ");

xuatntn(nv.ns);

printf("\tNoi sinh: %s", nv.noisinh);

printf("\tDia chi: %s", nv.diachi);

printf("\tLuong: %d\n", nv.luong);

printf("\tNgay cong tac: ");

xuatntn(nv.ngayct);

}

void nhapdsnv (NV dsnv[], int &n)

{

printf("\nNhap so luong nhan vien: "); scanf\_s("%d", &n);

printf("\tNhap thong tin nhan vien\n");

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

{

printf("Nhan vien thu %d\n", i + 1);

fflush(stdin);

nhap1NV(dsnv[i]);

}

}

void xuatdsnv (NV dsnv[], int n)

{

printf("Danh sach nhan vien\n");

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

{

printf("- Nhan vien thu %d\n", i + 1);

xuat1NV(dsnv[i]);

printf("\t---------------------------------------\n");

}

}

void themnv (NV dsnv[], NV &x, int &n, int &k)

{

printf("Vi tri can them: "); scanf\_s("%d", &k);

nhap1NV(x);

if (k - 1 < 0)

{

for (int i = n - 1; i >= k; i--)

{

dsnv[i + 1] = dsnv[i];

}

dsnv[0] = x;

n++;

}

else if (k - 1 > n)

{

dsnv[n] = x;

n++;

}

else

{

for (int i = n - 1; i >= k - 1; i--)

{

dsnv[i + 1] = dsnv[i];

}

dsnv[k - 1] = x;

n++;

}

}

int timMSNV (NV dsnv[], int n, int y)

{

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

{

if (dsnv[i].maso == y)

{

return i;

break;

}

}

return -1;

}

int timtenNV (NV dsnv[], int n, char \*z)

{

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

{

if (strcmp(dsnv[i].ten, z) == 0)

{

return i;

break;

}

}

return -1;

}

void swap (NV &x, NV &y)

{

NV temp = x;

x = y;

y = temp;

}

void sapxepluong\_giamdan (NV dsnv[], int n)

{

for (int i = 0; i < n - 1; i++)

{

for (int j = i + 1; j < n; j++)

{

if (dsnv[j].luong > dsnv[i].luong)

{

swap(dsnv[j], dsnv[i]);

}

}

}

}

void xoanhanvien (NV dsnv[], int &n, int t)

{

int vitri = timMSNV(dsnv, n, t);

if (vitri == -1)

{

printf("Khong tim thay ma so nhan vien %d muon xoa\n", t);

}

else

{

for (int i = vitri; i < n; i++)

{

dsnv[i] = dsnv[i + 1];

}

n--;

}

}