**Báo Cáo Thực Hành**

Nguyễn Hữu Dũng – 20215545 - 727639A screenshot of a computer

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#include <bits/stdc++.h>

using namespace std;

#define MAX 1000

#define CURRENT\_YEAR 2023

typedef struct {

int day;

int month;

int year;

} ngayvaodang;

typedef struct {

string TenCB;

string Diachi;

int sodangvien;

int tongluong;

float tongdangphithu;

float chibogiulai;

float nopcaptren;

float tongtrocap;

} chibo;

typedef struct {

string sothedv;

string tendangvien;

ngayvaodang ngayDang;

string chucvudang;

int luong;

float dangphi;

float tienphucap;

int phaidong;

} dangvien;

int sochibo;

int tongluong;

float tongdangphi;

float tongnop;

chibo CB[MAX];

dangvien DV[MAX][MAX];

void input() {

cout << "Ban da chon nhap danh sach Chi bo - Dang vien!" << endl;

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

cout << endl;

cout << "Nhap thong tin chi bo thu " << i+1 << ":" << endl;

cout << endl;

cout << "Ten chi bo: ";

cin >> CB[i].TenCB;

cout << endl;

cout << "So dang vien: ";

cin >> CB[i].sodangvien;

cout << endl;

cout << "Nhap danh sach Dang vien:" << endl;

for (int j = 0; j < CB[i].sodangvien; j++) {

cout << endl;

cout << "Dang vien thu " << j+1 << ":" << endl;

cout << endl;

cout << "\t So the: ";

cin >> DV[i][j].sothedv;

cout << "\t Ten Dang vien: ";

cin.ignore();

getline(cin, DV[i][j].tendangvien);

cout << "\t Ngay vao Dang: " << endl;

cout << "\t \t Ngay: ";

cin >> DV[i][j].ngayDang.day;

cout << "\t \t Thang: ";

cin >> DV[i][j].ngayDang.month;

cout << "\t \t Nam: ";

cin >> DV[i][j].ngayDang.year;

cout << "\t \t Luong: ";

cin >> DV[i][j].luong;

cout << "\t \t Chuc vu: ";

cin >> DV[i][j].chucvudang;

DV[i][j].dangphi = DV[i][j].luong \* 0.01;

if (DV[i][j].chucvudang == "BiThu") {

DV[i][j].tienphucap = DV[i][j].luong \* 0.05;

}

else if (DV[i][j].chucvudang == "PBThu") {

DV[i][j].tienphucap = DV[i][j].luong \* 0.025;

}

else if (DV[i][j].chucvudang == "Uyvien") {

DV[i][j].tienphucap = DV[i][j].luong \* 0.015;

}

else DV[i][j].tienphucap = 0;

}

for (int j = 0; j < CB[i].sodangvien; j++) {

CB[i].tongluong += DV[i][j].luong;

CB[i].tongdangphithu += DV[i][j].dangphi;

CB[i].tongtrocap += DV[i][j].tienphucap;

}

CB[i].nopcaptren = CB[i].tongdangphithu \* 0.3;

CB[i].chibogiulai = CB[i].tongdangphithu \* 0.7;

tongluong += CB[i].tongluong;

tongdangphi += CB[i].tongdangphithu;

tongnop += CB[i].nopcaptren;

}

cout << endl;

cout << "Da nhap xong! Bam phim bat ky de tiep tuc!" << endl;

}

void print() {

cout << "Ban da chon xuat chi bo!" << endl;

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

cout << "Ten Chi bo: " << CB[i].TenCB << endl;

cout << "So Dang vien: " << CB[i].sodangvien << endl;

cout << "Tong luong: " << CB[i].tongluong << endl;

cout << "Tong thu Dang phi: " << CB[i].tongdangphithu << endl;

cout << "Tong nop DP cap tren: " << CB[i].nopcaptren << endl;

cout << "Tong tro cap chuc vu: " << CB[i].tongtrocap << endl;

cout << endl;

cout << "Bang thu Dang phi: " << endl;

cout << endl;

cout << setw(5) << left << "Sothe" << " | "

<< setw(15) << left << "HotenDV" << " | "

<< setw(15) << left << "Ngayvaodang" << " | "

<< setw(8) << left << "Tuoidang" << " | "

<< setw(10) << left << "Chucvu" << " | "

<< setw(8) << left << "Trocap" << " | "

<< setw(10) << left << "Luong" << " | "

<< setw(10) << left << "Dang phi" << endl;

for (int j = 0; j < CB[i].sodangvien; j++) {

cout << setw(5) << left << DV[i][j].sothedv << " | "

<< setw(15) << left << DV[i][j].tendangvien << " | "

<< setw(1) << left << DV[i][j].ngayDang.day << "-" << setw(1) << left << DV[i][j].ngayDang.month << "-" << setw(3) << left << DV[i][j].ngayDang.year << " | "

<< setw(8) << left << CURRENT\_YEAR - DV[i][j].ngayDang.year << " | "

<< setw(10) << left << DV[i][j].chucvudang << " | "

<< setw(8) << left << DV[i][j].tienphucap << " | "

<< setw(10) << left << DV[i][j].luong << " | "

<< setw(10) << left << DV[i][j].dangphi << endl;

}

cout << endl;

}

cout << endl << endl;

cout << "Tong luong cac chi bo: " << tongluong << endl;

cout << "Tong dang phi thu duoc: " << tongdangphi << endl;

cout << "Tong nop cap tren: " << tongnop << endl;

cout << "------------------------------------------" << endl;

cout << "Da xuat xong! Bam phim bat ky de tiep tuc!" << endl;

}

int main () {

cout << "Nguyen Huu Dung - 20215545 - 727639 - 2022.2 - IT3040" << endl;

cout << "\*\*CHUONG TRINH QUAN LY CHI BO - DANG VIEN\*\*" << endl;

cout << "---------------------------------------" << endl;

cout << "Nhap so chi bo: ";

cin >> sochibo;

cout << "---------------------------------------" << endl;

int option;

do {

cout << "\*\*1. Nhap cac chi bo." << endl;

cout << "\*\*2. In ket qua danh sach cac chi bo - dang vien." << endl;

cout << "\*\*0. Thoat" << endl;

cout << "---------------------------------------" << endl;

cout << "\*\* Nhap lua chon cua ban \*\*" << endl;

cin >> option;

if (option == 1) {

input();

}

if (option == 2) {

print();

}

if (option == 0) {

cout << "Ban da chon thoat chuong trinh! Chao tam biet" << endl;

exit(0);

}

} while (1);

return 0;

}