

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
```

```
// Cau 01
```

```
int F(int n)
{
    if(n==1)    return 1;
    if(n==2)    return 3;
    return 3*F(n-1)+7*F(n-2)+2;
}
```

```
// Cau 02
```

```
void DocFileMang(char TenFile[], int a[], int &n)
```

```
{
    FILE *f;
    f=fopen(TenFile,"rt");
    if(f==NULL)
    {
        printf("\n Khong tim thay file tren o cung");
        return;
    }
    printf("\n Doc file thanh cong !!! ");
    fscanf(f,"%d",&n);
    for(int i=0;i<n;i++)
        fscanf(f,"%d",&a[i]);
    fclose(f);
}
```

```
void XuatMang(int a[], int n)
```

```
{  
    printf("\n Mang ban vua doc tu file nguon la ");  
    for(int i=0;i<n;i++)  
        printf("%d, ",a[i]);  
}
```

```
void Cau2a(int a[],int n)
```

```
{  
    int tong=0;  
    printf("\n Dong Cac Phan Tu Co Chi So Le: ");  
    for(int i=0;i<n;i++)  
        if(i%2==1)  
            printf("%d, ",a[i]);  
    printf("\n Dong Cac Phan Tu La So Le: ");  
    for(int i=0;i<n;i++)  
        if(a[i]%2==1)  
            printf("%d, ",a[i]);  
}
```

```
void Cau2b(int a[], int n)
```

```
{  
    int dem=0;  
    for(int i=0;i<n;i++)  
        if(a[i]%5==0)    dem++;  
    printf("\n Co %d so chia het cho 5",dem);  
}
```

### // Cau 03

```
struct NHANVIEN
```

```
{
```

```
    char MaNV[10];
```

```
    char TenNV[25];
```

```
    char PhongBan[15];
```

```
    int NamSinh;
```

```
    float Luong;
```

```
};
```

```
void DocFileNhanVien(char TenFile[], NHANVIEN a[],int &n)
```

```
{
```

```
    FILE *f;
```

```
    f=fopen(TenFile,"rt");
```

```
    if(f==NULL) return;
```

```
    printf("\n Doc file thanh cong !!!! ");
```

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

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

```
    {
```

```
        fscanf(f,"%s",&a[i].MaNV);
```

```
        fscanf(f,"%s",&a[i].TenNV);
```

```
        fscanf(f,"%s",&a[i].PhongBan);
```

```
        fscanf(f,"%d",&a[i].NamSinh);
```

```
        fscanf(f,"%f",&a[i].Luong);
```

```
        fflush(stdin);
```

```
    }
```

```
    fclose(f);
```

```

}

void XuatNhanVien(NHANVIEN a[], int n)
{
    printf("\n DANH SACH NHAN VIEN BAN VUA NHAP LA ");
    printf("\nSTT\tMANV\tTENNV\tPHONGBAN\tNAMSINH\tLUONG");
    printf("\n-----");
    for(int i=0;i<n;i++)
        printf("\n%d\t%s\t%s\t\t%d\t%.0f",i+1,a[i].MaNV,a[i].TenNV,a[i].PhongBan,a[i].NamSinh,a[i].Luong);
    printf("\n-----");
}

```

```

void Cau3a(NHANVIEN a[], int n, float &x)
{
    int dem=0;
    printf("\n Nhap vao x can kiem tra: ");scanf("%f",&x);
    for(int i=0;i<n;i++)
        if(a[i].Luong>=x)    dem++;
    printf("\nSo Nhan Vien Co Luong > %.1f la = %d",x,dem);
}

```

```

void Cau3b(NHANVIEN a[], int n)
{
    float tb=0;
    for(int i=0;i<n;i++)
        tb=tb+a[i].Luong;
    printf("\n\t LUONG TRUNG BINH = %.1f",tb/n);
}

```

```
int main()
```

```
{  
    // Cau 01  
    // int n;  
    // printf("\n Nhap n nguyen duong: ");scanf("%d",&n);  
    // printf("\n TongCau 01 = %d",F(n-1));  
    // Cau 02  
    // int a[50], n;  
    // char TenFile[50];  
    // printf("\n Nhap vao file can mo du lieu: ");gets(TenFile);  
    // DocFileMang(TenFile,a,n);  
    // XuatMang(a,n);  
    // Cau2a(a,n);  
    // Cau2b(a,n);  
    // Cau 03  
    NHANVIEN nv[50];  
    int n;  
    float x;  
    char TenFile[50];  
    printf("\n Nhap vao file can mo du lieu: ");gets(TenFile);  
    DocFileNhanVien(TenFile,nv,n);  
    XuatNhanVien(nv,n);  
    Cau3a(nv,n,x);  
    Cau3b(nv,n);  
    getch();  
    return 0;  
}
```