

```
#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 2*F(n-1)+5*F(n-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 So Chan: ");

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

        if(a[i]%2==0)

        {

            printf("%d, ",a[i]);

            tong=tong+a[i];

        }

}

```

```
printf("\n Tong Cac So Chan La: %d", tong);  
}
```

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

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

```
// Cau 03
```

```
struct XeMoTo  
{  
    char HieuXe[10]; // nhu Suzuki, Nouvo, Lead ...  
    char NhaSX[50]; // Ten Nha SX  
    int NamSX; // Nam SX  
    int DungTich; // dung tich Xe  
    int GiaThanh; // Gia Xe  
};
```

```
void DocFileDSXeMoTo(char TenFile[], XeMoTo xe[],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",&xe[i].HieuXe);  
  
        fscanf(f,"%s",&xe[i].NhaSX);  
  
        fscanf(f,"%d",&xe[i].NamSX);  
  
        fscanf(f,"%d",&xe[i].DungTich);  
  
        fscanf(f,"%d",&xe[i].GiaThanh);  
  
        fflush(stdin);  
  
    }  
  
    fclose(f);  
  
}
```

```
void XuatXe(XeMoTo xe[], int n)
```

```
{
```

```

printf("\n DANH SACH SINH VIEN XE VUA NHAP ");
printf("\nSTT\tHIEUXE\tNHASX\tNAMSX\tDUNG TICH\tGIATHANH
");
printf("\n-----
----");
for(int i=0;i<n;i++)
printf("\n%d\t%s\t%s\t%d\t%d\t\t%d",i+1,xe[i].HieuXe,xe
[i].NhaSX,xe[i].NamSX,xe[i].DungTich,xe[i].GiaThanh);
printf("\n-----
----");
}

```

void Cau3a(XeMoTo xe[], int n)

```

{
    int tong=0;
    for(int i=0;i<n;i++)
    if(strcmp(xe[i].NhaSX,"Yamaha")==0)
        tong=tong+xe[i].GiaThanh;
    printf("\n Tong Gia Thanh = %d",tong);
}

```

```
void Cau3b(XeMoTo xe[], int n)
```

```
{  
    int d=0;  
    for(int i=0;i<n;i++)  
        if(xe[i].NamSX==2023 && xe[i].DungTich>=100)  
            d++;  
    printf("\n So Xe SX nam 2023 la = %d",d);  
}
```

```
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  
  
XeMoTo xe[50];  
  
int n;  
  
char TenFile[50];  
  
printf("\n Nhap vao file can mo du lieu:  
"); gets(TenFile);  
  
DocFileDSXeMoTo(TenFile, xe, n);  
  
XuatXe(xe, n);  
  
Cau3a(xe, n);  
  
Cau3b(xe, n);  
  
getch();  
  
return 0;  
  
}
```