

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

```
// 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]);
}
```

**// Cau 2a**

```
void XuatPhanTuChiaHetCho3(int a[], int n)
{
    int dem=0;
    for(int i=0;i<n;i++)
        if(a[i]%3==0)
            printf("%d, ",a[i]);
}
```

**// Cau 2b**

```
void TongCacPhanTuChiaHetCho_x(int a[], int n)
{
    int x, tong=0;
    printf("\n Nhap vao x can kiem tra: ");scanf("%d",&x);
    for(int i=0;i<n;i++)
        if(a[i]%x==0) tong=tong+a[i];
    printf("\n Tong Cac Phan Tu Chia Het Cho x la %d",tong);
}
```

**// Cau 2c**

```
void MaxMang(int a[], int n)
{
    int max=a[0];
    for(int i=0;i<n;i++)
        if(max<a[i]) max=a[i];
    printf("\n Max Mang = %d",max);
}
```

// Cau 03-----

**struct MONHOC**

```
{
    char MaMH[20];
    char TenMH[50];
    char Khoa[30];
    int SoTC;
};

void DocFileMonHoc(char TenFile[], MONHOC a[],int &n)
{
    FILE *f;
    f=fopen(TenFile,"rt");
    if(f==NULL)    return; // nghĩa là ko tìm thấy file trên ổ cứng
    printf("\n Doc file thanh cong !!!! ");
    fscanf(f,"%d",&n);
    for(int i=0;i<n;i++)
    {
        fscanf(f,"%s",&a[i].MaMH);
        fscanf(f,"%s",&a[i].TenMH);
        fscanf(f,"%s",&a[i].Khoa);
        fscanf(f,"%d",&a[i].SoTC);
        fflush(stdin);
    }
    fclose(f);
}
```

```

void XuatMonHoc(MONHOC a[], int n)
{
    printf("\n DANH SACH MON HOC BAN VUA NHAP LA ");
    printf("\nSTT\tMAMH\tTENMH\tKHOA\tSOTC");
    printf("\n-----");
    for(int i=0;i<n;i++)
        printf("\n%d\t%s\t%s\t%s\t\t%d",i+1,a[i].MaMH,a[i].TenMH,a[i].Khoa,a[i].SoTC);
    printf("\n-----");
}

```

### // Cau 3a

```

void DemMonHoc(MONHOC a[], int n)
{
    int dem=0;
    for(int i=0;i<n;i++)
        if(strcmp(a[i].Khoa,"CNTT")==0)
            dem++;
    printf("\n So Mon Hoc Thuoc Khoa CNTT la %d",dem);
}

```

### // Cau 3b

```

void XuatMonHoc2TC(MONHOC a[], int n)
{

    printf("\n DANH SACH MON HOC CO TU 2 TIN CHI TRO LEN LA ");
    printf("\nSTT\tMAMH\tTENMH\tKHOA\tSOTC");
    printf("\n-----");
}

```

```

    for(int i=0;i<n;i++)
        if(a[i].SoTC>=2)
            printf("\n%d\t%s\t%s\t%s\t\t%d",i+1,a[i].MaMH,a[i].TenMH,a[i].Khoa,a[
i].SoTC);

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

int main()
{
    int a[50], n;
    char TenFile[50];
    printf("\n Nhap vao file can doc: ");gets(TenFile);
    DocFileMang(TenFile,a,n);
    XuatMang(a,n);
    XuatPhanTuChiaHetCho3(a,n);
    TongCacPhanTuChiaHetCho_x(a,n);
    MaxMang(a,n);
    fflush(stdin);
    MONHOC b[50];
    printf("\n Nhap vao file can doc: ");gets(TenFile);
    DocFileMonHoc(TenFile,b,n);
    XuatMonHoc(b,n);
    DemMonHoc(b,n);
    XuatMonHoc2TC(b,n);
    getch();
    return 0;
}

```