

```
#include<stdio.h>

#include<conio.h>

#include<string.h>
```

```
// Cau 2
```

```
int f(int n)

{

    if(n==1)

        return 2;

    if(n==2)

        return 3;

    return 2*f(n-1)+3*f(n-2);
```

```
}
```

```
// Cau 3
```

```
void NhapMang(int a[100], int &n)

{

    do{
```

```

        printf("\n Nhap vao so phan tu cua mang
");scanf("%d",&n);

        }while(n<0||n>100);

        // Nhap mang

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

        {

                printf("\n Nhap vao a[%d] =
",i);scanf("%d",&a[i]);

        }

}

void XuatMang(int a[100], int n)

{

        printf("\n Mang vua nhap la ");

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

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

}

void DemSoViTri(int a[100], int n)

{

        int dem =0;

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

                if(a[i]*a[i]==a[i-1]*a[i-1]+a[i+1]*a[i+1])

```

```

        dem++;

        if(dem>0)    printf("\n So Vi Tri Thoa Yeu Cau la
%d",dem);

        else printf("\n Khong co Vi Tri nao thoa yeu cau
");
    }

```

// Cau 4

```

void NhapXuatChuoi(char str[100])
{
    printf("\n Nhap vao chuoi str ");gets(str);

    // xuat
    printf("\n Chuoi vua nhap la ");
    puts(str);
    fflush(stdin);
}

void XoaKyTu(char str[100], char &KyTu)
{
    printf("\n Nhap vao ky tu muon xoa
");scanf("%c",&KyTu);

    int dai = strlen(str);

```

```

for(int i=0;i<dai;i++)
{
    if(str[i]==KyTu)
    {
        for(int j=i;j<dai;j++)
            str[j]=str[j+1];
        i--;
        //str[dai-1]='\0';
    }

}

// xuất
puts(str);

}

```

// Cau 5

```

typedef struct  ThiSinh
{
    char      hoTen[50]; // h? và tên c?a thí sinh

```

```

        int      Tuoi;          // nam sinh

        float     diemToan;      // diem thi
môn Toán

        float     diemVan;      // diem thi môn
Van

};

```

```

void NhapThiSinh(ThiSinh ts[100], int &n)
{
    printf("\n Nhap vao thi sinh cua ky thi
");scanf("%d",&n);

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

        printf("\n Nhap vao Ho Ten Thi Sinh ");
        scanf("%s",&ts[i].hoTen);

        printf("\n Nhap vao Tuoi Thi Sinh ");
        scanf("%d",&ts[i].Tui);

        printf("\n Nhap vao Diem Toan Thi Sinh");
        scanf("%f",&ts[i].diemToan);
    }
}

```

```

        printf("\n Nhap vao Diem Van Thi Sinh ");
        scanf("%f",&ts[i].diemVan);

    }

}

void XuatThiSinh(ThiSinh ts[100], int n)
{
    printf("\n DANH SACH THI SINH BAN VUA NHAP LA ");
    printf("\nSTT\tHoTEN\tTuoi\tToan\tVan");
    printf("\n-----");
    printf("-----");

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

        printf("\n%d\t%s\t%d\t%.2f\t%.2f",i+1,ts[i].hoTen,ts[i].Tuoi,ts[i].diemToan,ts[i].diemVan);
        printf("\n-----");
        printf("-----");
    }

void DemSoThiSinh_TongDiem_LonHon10(ThiSinh ts[100],
int n)
{
    int dem = 0;

```

```

for(int i=0;i<n;i++)
    if(ts[i].diemToan+ts[i].diemVan>=10)
        dem++;

if(dem>0) printf("\n Co %d thi sinh co tong diem 2
mon >=10 ",dem);
else printf("\n Khong co em nao ");
}

```

```

int main()
{
    //// Cau 2

    //int n;

    //printf("\n Nhap vao gia tri n ");scanf("%d",&n);
    //printf("\n Ket Qua f(n)= %d",f(n));

    //// Cau 3

    //int n, a[100];
    //NhapMang(a,n);
    //XuatMang(a,n);
}

```

```
//DemSoViTri(a,n);
```

```
//// Cau 4
```

```
//char str[100], KyTu;
```

```
//NhapXuatChuoi(str);
```

```
//XoaKyTu(str,KyTu);
```

```
// Cau 5
```

```
Thisinh ts[100];
```

```
int n;
```

```
NhapThisinh(ts,n);
```

```
XuatThisinh(ts,n);
```

```
DemSoThisinh_TongDiem_LonHon10(ts,n);
```

```
getch();
```

```
return 0;
```

```
}
```