1．试把以下程序划分为基本块并作出程序流程图。

```
    read  C
    A:=0
    B:=1
L1:A:=A+B
    If  B≥C goto L2
    B:=B+1
    goto L1
L2:write A
    Halt
```
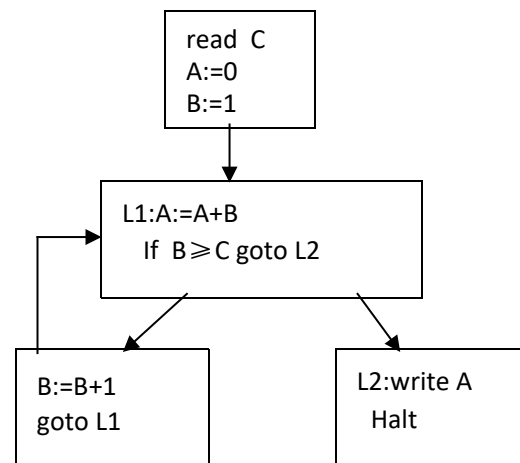
解答：

```
        read  C
        A:=0      B1
        B:=1
    L1:A:=A+B
        If  B≥C goto L2    B2
        B:=B+1
        goto L1    B3
    L2:write A
        Halt    B4
```


2.试把以下程序划分为基本块并作出其程序流图。

```
    read  A,B
    F:=1
    C:=A*A
    D:=B*B
    if C<D goto L1
    E:=A*A
    F:=F+1
    E:=E+F
    Write E
    Halt
L1:E:=B*B
    F:=F+2
    E:=E+F
    Write E
    if E>100 goto L2
    halt
L2: F:=F-1
    Goto L1
```

解答：可划分如下基本块

```
    read  A,B
    F:=1
```

```
C:=A*A        B1
D:=B*B
if C<D goto L1
E:=A*A      ⎫
F:=F+1      ⎪
E:=E+F    B2⎬
Write E     ⎪
Halt        ⎭
L1:E:=B*B   ⎫
 F:=F+2     ⎪
 E:=E+F      B3
 Write E    ⎪
 if E>100 goto L2 ⎭
 halt    B4  ⎬
L2: F:=F-1   ⎫
 Goto L1   B5⎬
```



```
C:=A*A        B1
D:=B*B
if C<D goto L1
E:=A*A
F:=F+1
E:=E+F    B2
```