PART B

1.

```
 n1=0
n2=1
num=int(input())
for i in range(2,num):
 n3=n1+n2
 n1=n2
 n2=n3
print(n3)
```

2.

```
list=[]
n=int(input())
for i in range(1,n+1):
 list.append(int(input()))
sum=0
for i in list:
 sum+=i
print(sum)
```

3.

```
list=[]
```

```
list=[]
lst=[]
n=int(input())
for i in range(1,n+1):
 list.append(int(input()))
for i in range(1,n+1):
 lst.append(int(input()))
 flag=0
for i in list:
 for j in lst:
   if i>=j:
     flag=1
     break
if flag == 1:
 print("Compatible")
```

4.

```
list=[]
n=int(input())
for i in range(1,n+1):
 list.append(int(input()))
 max=list[0]
for i in list:
```

```
 if i>max:
     max=i
print(max)
```

5.

```
list=[]
n=int(input())
for i in range(1,n+1):
 list.append(int(input()))
z=len(list)
list.sort()
for i in range(z-2,-1,-1):
 if list[i]!=list[z-1]:
     print(list[i])
 break
```

6.

```
def recur_fibo(n):
 if n <= 1:
     return n
 else:
     return(recur_fibo(n-1) + recur_fibo(n-2))
nterms = int(input(""))
```

```
if nterms <= 0:
 print("Plese enter a positive integer")
else:
 for i in range(nterms):
     print(recur_fibo(i))
```

7.

```
def reverse(string):
 if len(string) == 0:
     return string
 else:
     return reverse(string[1:]) + string[0]
a = str(input(""))
print(reverse(a))
```

8.

```
def binary(n):
 if n > 1:
     binary(n//2)
 print(n % 2,end = ' ')
dec = int(input())
binary(dec)
```

9.

```
def binary(n):
 if n > 1:
     binary(n//2)
 print(n % 2,end = ' ')
dec = int(input())
binary(dec)
```

10.

```
list1=[]
list2=[]
ctr = 0
n=int(input())
for i in range(1,n+1):
 list1.append(int(input()))
 for i in list1:
     if i not in list2:
         list2.append(i)
print(len(list2))
```