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In [1]:
#Write a program non-recursive and recursive program to calculate Fibonacci numbers and a
nalyze their time and space complexity.
#non recursive
a=int(input("Enter the terms"))
s=1
if a<=0:
   print("series are", f)
else:
   print(f,s,end=" ")
    for x in range(2,a):
        next=f+s
       print(next, end=" ")
        f=s
        s=next
Enter the terms10
0 1 1 2 3 5 8 13 21 34
In [2]:
#Recursive
def fib(n):
   if n<=1:
       return n
    else:
       return fib(n-1)+fib(n-2)
nterms=int(input("Enter the terms"))
print("fibo series")
for i in range(nterms):
   print(fib(i))
Enter the terms10
fibo_series
0
1
1
2
3
5
8
13
21
34
In [ ]:
```