Programming 2:  
  
class FibonacciIterator:

def \_init\_(self, n):

self.n = n

self.prev = 0

self.curr = 1

for i in range(n):

self.prev, self.curr = self.curr, self.prev + self.curr

def next(self):

result = self.curr

for i in range(self.n):

self.prev, self.curr = self.curr, self.prev + self.curr

return result

n = 4

fib\_iterator = FibonacciIterator(n)

for \_ in range(10):

print(fib\_iterator.next())