**Algorithm for the Fibonacci sequence**

Step 1: Start

Step 2: Input the number n

Step 3: initialize n1 = 0, n2 = 1

Step 4: initialize count = 0

Step 5: If (n <= 0) print "Enter a positive integer"

Step 6: Else if ( n == 1) print "Fibonacci sequence to ",n,":")

Step 6.1: print (n1)

Step 7: Else print "Fibonacci sequence: "

Step 7.2: While count < n

Step 7.3: print (n1)

Step 7.4: initialize nth = n1 + n2

Step 7.5: Reassign n1 = n2

Step 7.6: Reassign n2 = nth

Step 7.7: count = count + 1

Step 8: Stop