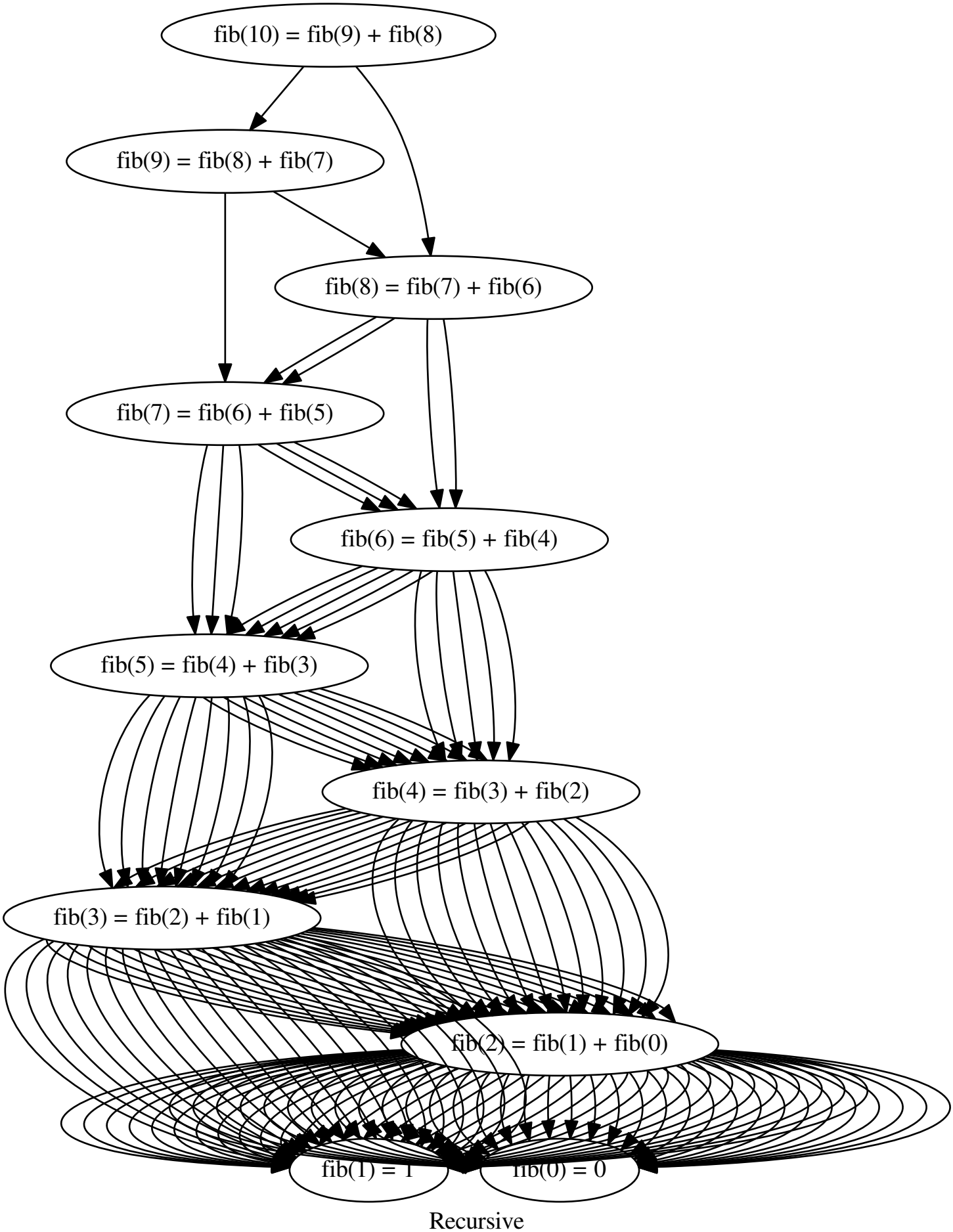
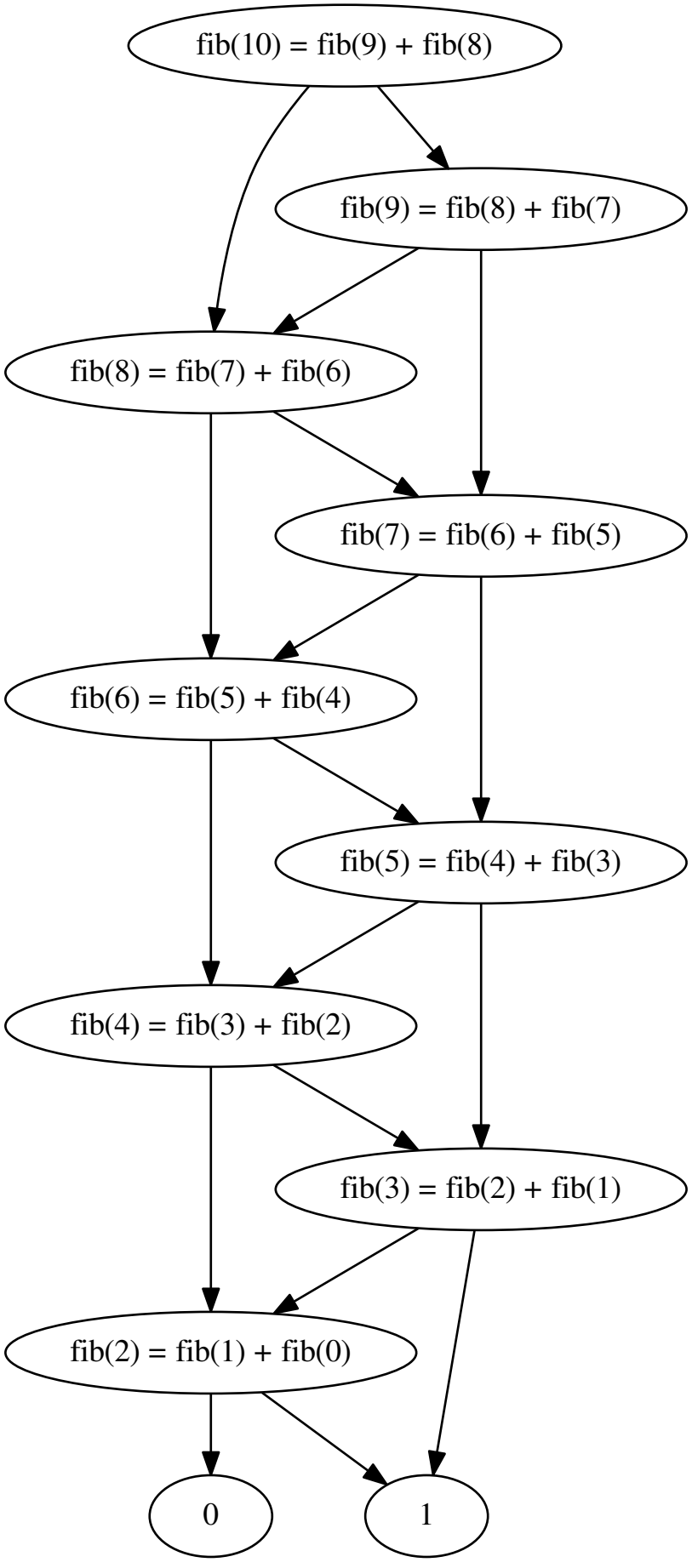

fib(10) = fib(9) + fib(8)
fib(9) = fib(8) + fib(7)
fib(8) = fib(7) + fib(6)
fib(7) = fib(6) + fib(5)
fib(6) = fib(5) + fib(4)
fib(5) = fib(4) + fib(3)
fib(4) = fib(3) + fib(2)
fib(3) = fib(2) + fib(1)
fib(2) = fib(1) + fib(0)
fib(1) = 1
fib(0) = 0

Recursive


fib(10) = fib(9) + fib(8)
fib(9) = fib(8) + fib(7)
fib(8) = fib(7) + fib(6)
fib(7) = fib(6) + fib(5)
fib(6) = fib(5) + fib(4)
fib(5) = fib(4) + fib(3)
fib(4) = fib(3) + fib(2)
fib(3) = fib(2) + fib(1)
fib(2) = fib(1) + fib(0)
0
1

Iterative