



Fibonacci as a Recursive Function

Function that calls itself

Each call is new frame

Frames require memory

• ∞ calls = ∞ memory

fibonacci 3

n **5**

fibonacci 1

n <mark>3</mark>

fibonacci 1

n **4**

2

4

def fibonacci(n):

if n <= 1:

return 1

return (fibonacci(n-1)+

fibonacci(n-2))

"""Returns: Fibonacci no. an

Precondition: $n \ge 0$ an int"""





















