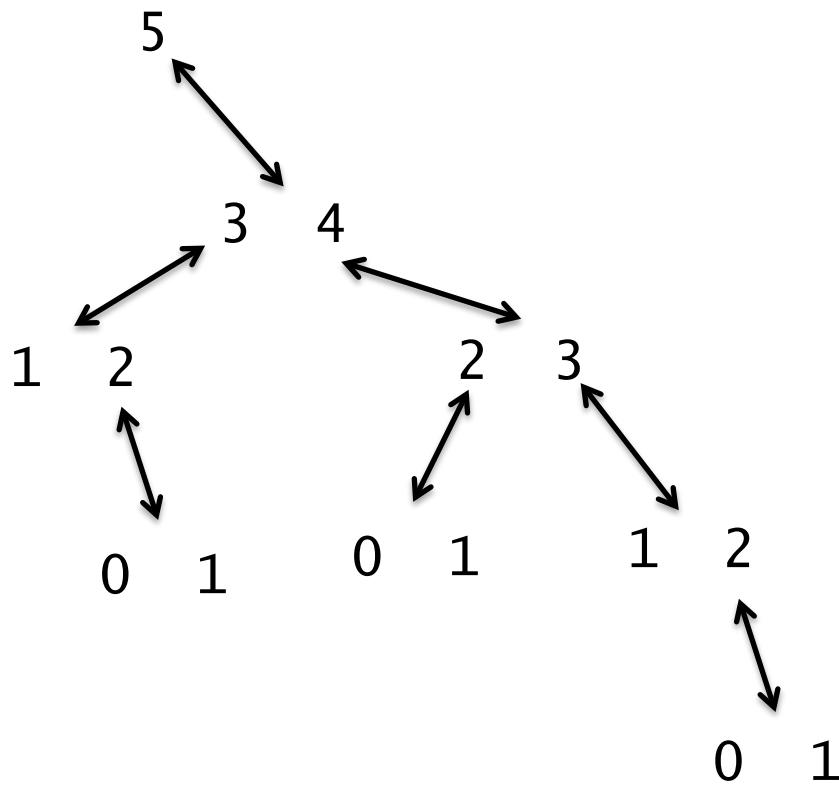


# Fibonacci(5)



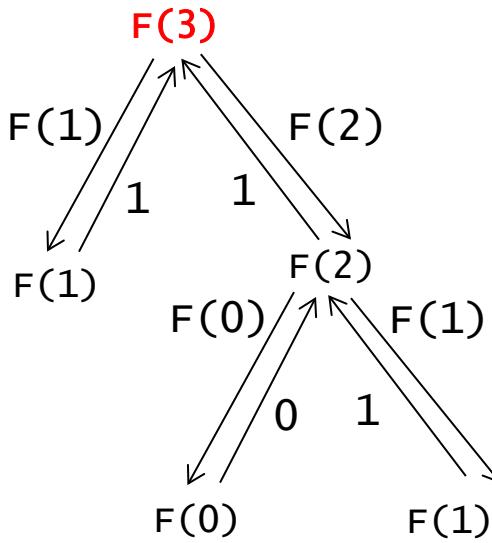
```
0 LOOP: LODD PassCnt:  
1 JZER DONE:  
2 SUBD c1:  
3 STOD PassCnt:  
4 LODD daddr:  
5 PSHI  
6 ADDD c1:  
7 STOD daddr:  
8 CALL FIB:  
9 INSP 1  
10 PUSH  
11 LODD faddr:  
12 POPI  
13 ADDD c1:  
14 STOD faddr:  
15 JUMP LOOP:
```

-1
-1
-1
-1
-1
-1
-1
-1
-1
-1
-1
9 RET ADR
3 → arg f(3)
-1

```
16 FIB: LODL 1
17      JZER  FIBZER:
18      SUBD  c1:
19      JZER  FIBONE:
20      PUSH
21      CALL  FIB:
22      PUSH

      .
      .
      .

      RETN
FIBZER: LODD c0:
      RETN
FIBONE: LODD c1:
      RETN
```



```

.LOC 100
100 d0: 3
101   9
102  18
103  23
104  25
105 f0: 0
; 5 locations of 0
110 daddr: d0: 100 → 101
111 faddr: f0:
112 c0: 0
113 c1: 1
114 PassCnt: 5 → 4
  
```

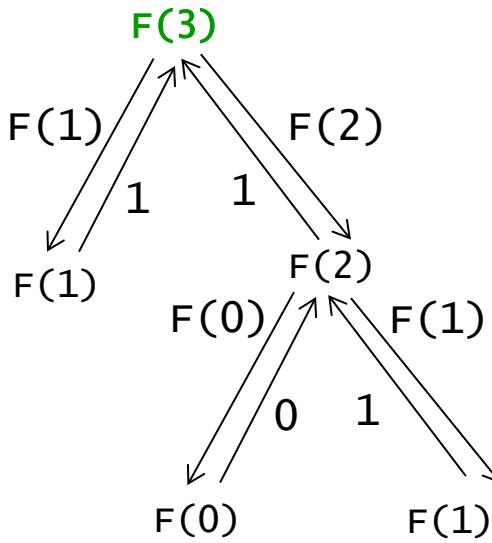
-1
-1
-1
-1
-1
-1
-1
-1
-1
-1
9
3
-1

← SP

3 AC

```

16 FIB: LODL 1
17 JZER FIBZER:
18 SUBD c1:
19 JZER FIBONE:
20 PUSH
21 CALL FIB:
22 PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN
  
```



```

.LOC 100
100 d0: 3
101   9
102  18
103  23
104  25
105 f0: 0
; 5 locations of 0
110 daddr: d0: 100 → 101
111 faddr: f0:
112 c0: 0
113 c1: 1
114 PassCnt: 5 → 4
  
```

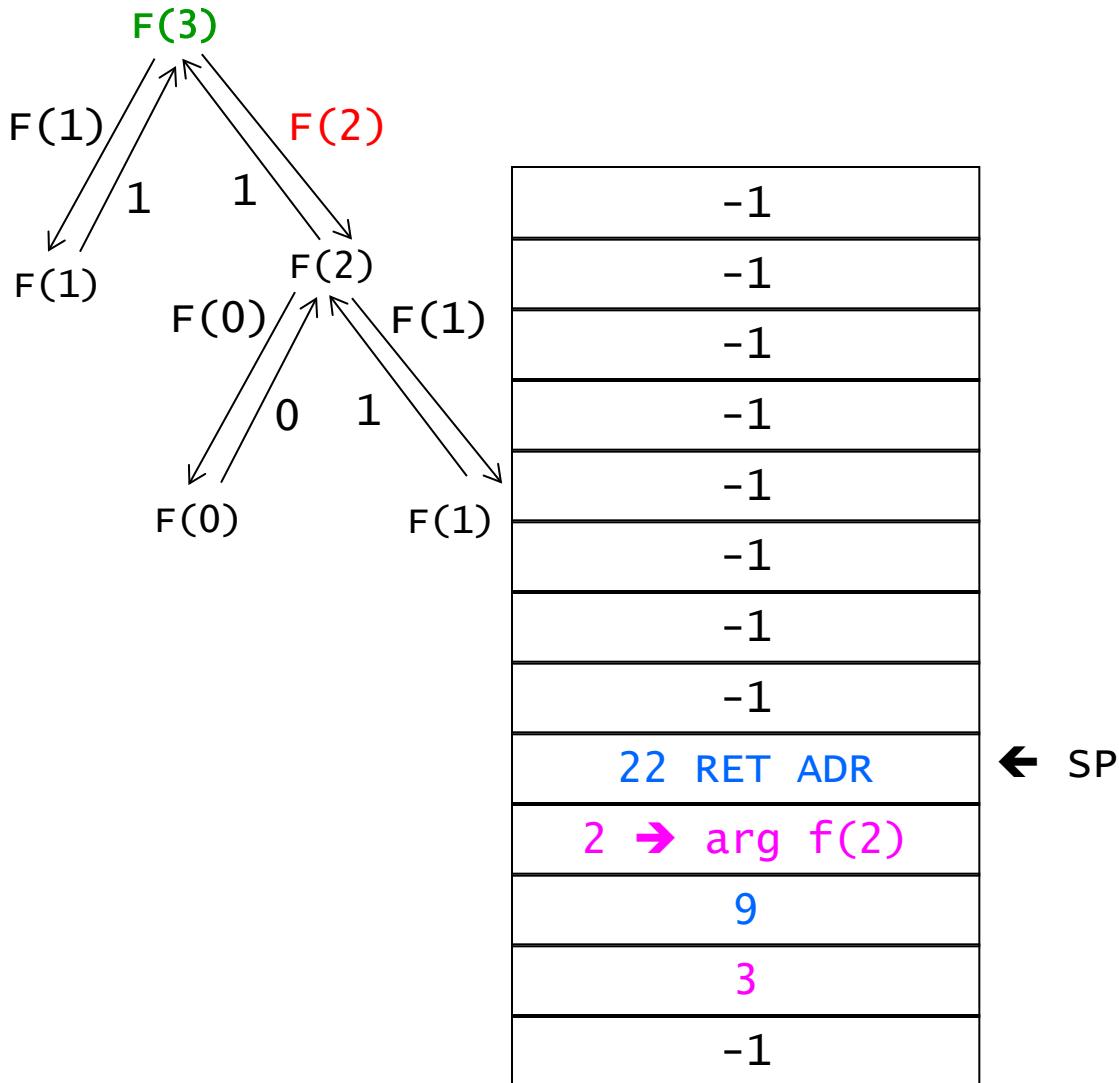
-1
-1
-1
-1
-1
-1
-1
-1
-1
-1
-1
9
3
-1

← SP

3	-	C1	→	2	AC
---	---	----	---	---	----

```

16 FIB: LODL 1
17      JZER FIBZER:
18      SUBD c1:
19      JZER FIBONE:
20      PUSH
21      CALL FIB:
22      PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN
  
```

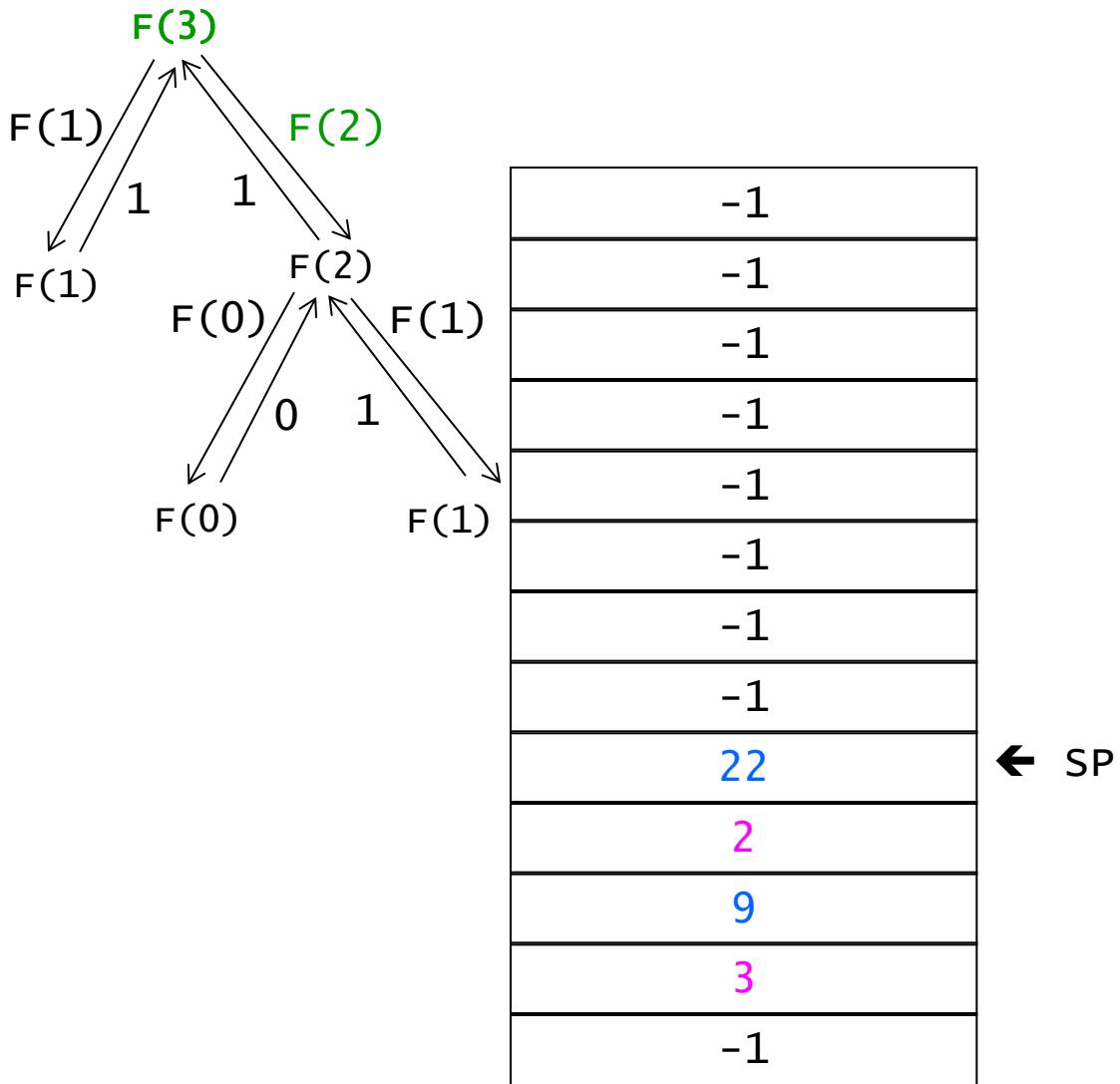


2 → (n-1), f(3) AC

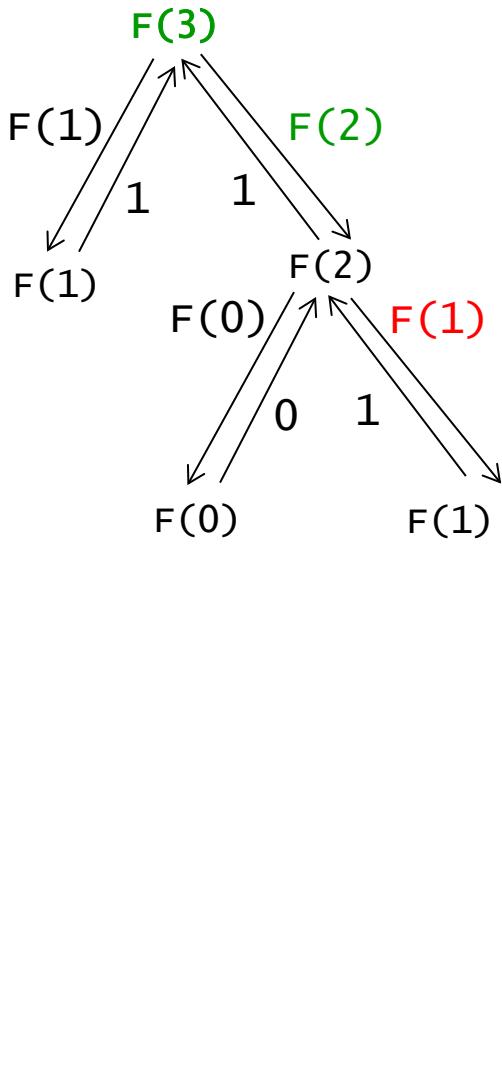
```

16 FIB: LODL 1
17 JZER FIBZER:
18 SUBD c1:
19 JZER FIBONE:
20 PUSH
21 CALL FIB:
22 PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN

```



2 AC

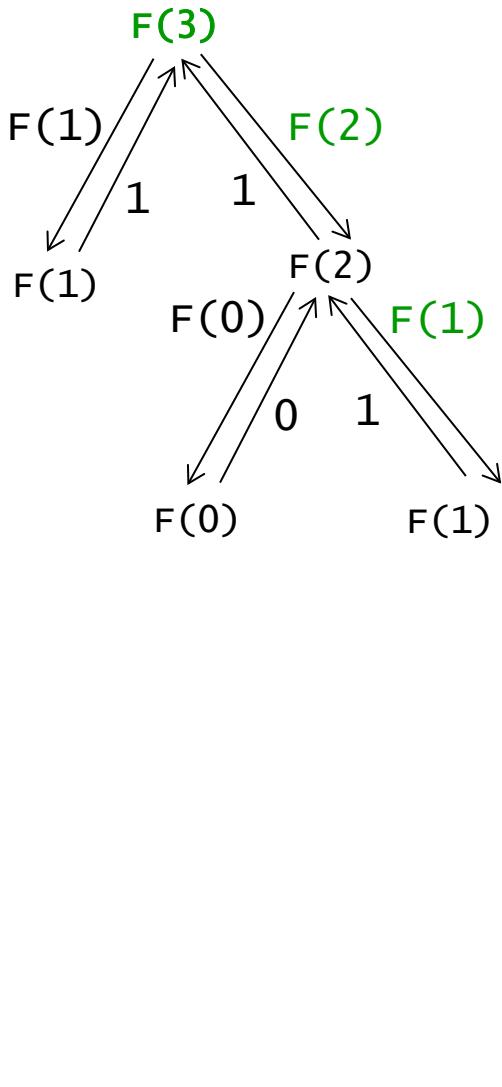


$1 \rightarrow (n-1), f(2)$	AC
-----------------------------	----

```

16 FIB: LODL 1
17 JZER FIBZER:
18 SUBD c1:
19 JZER FIBONE:
20 PUSH
21 CALL FIB:
22 PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN

```

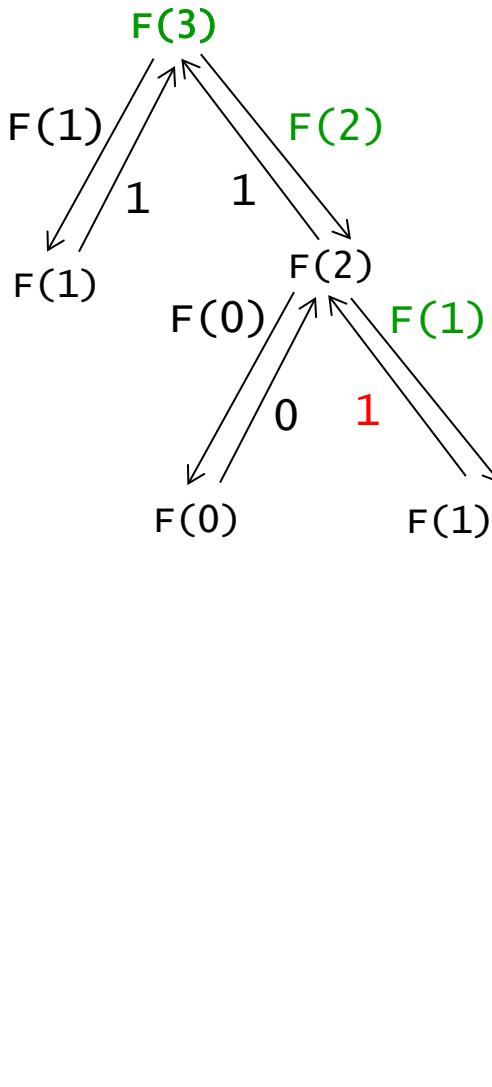


```

0 → get f(1) AC

16 FIB: LODL 1
17 JZER FIBZER:
18 SUBD c1:
19 JZER FIBONE:
20 PUSH
21 CALL FIB:
22 PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN

```

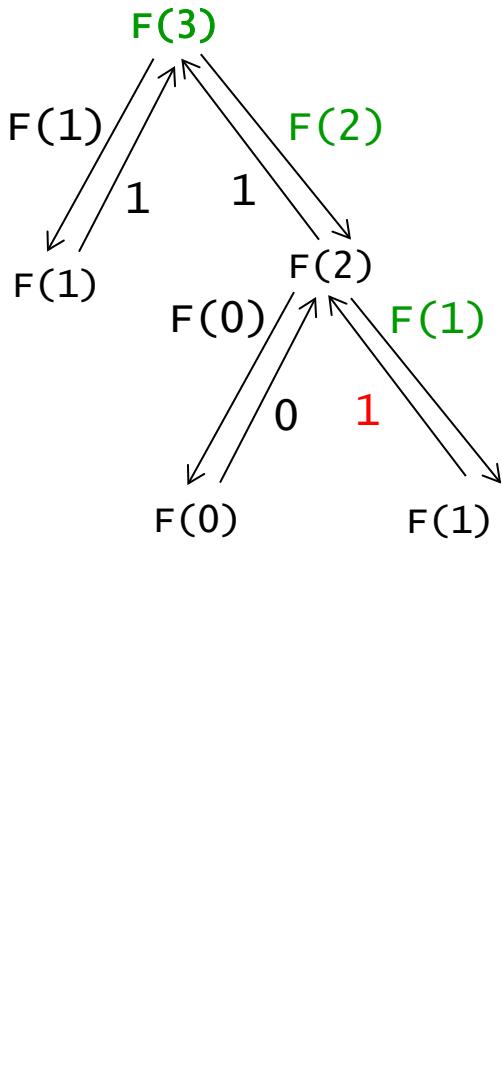


$1 = f(1)$	AC
------------	----

```

16 FIB: LODL 1
17      JZER FIBZER:
18      SUBD c1:
19      JZER FIBONE:
20      PUSH
21      CALL FIB:
22      PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN

```

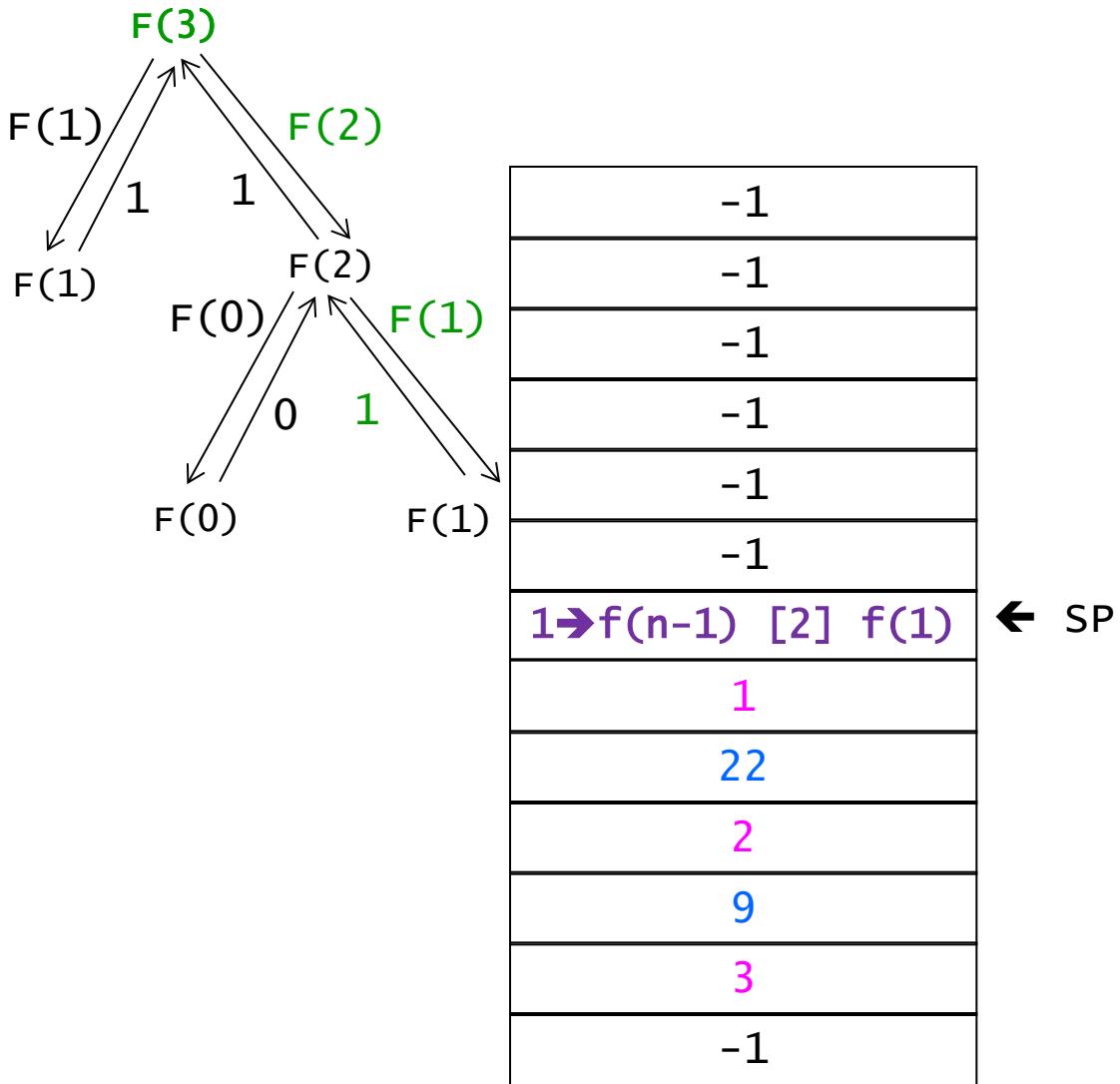


1 → f(n-1) [2] f(1) AC

```

16 FIB: LODL 1
17      JZER FIBZER:
18      SUBD c1:
19      JZER FIBONE:
20      PUSH
21      CALL FIB:
22      PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN

```

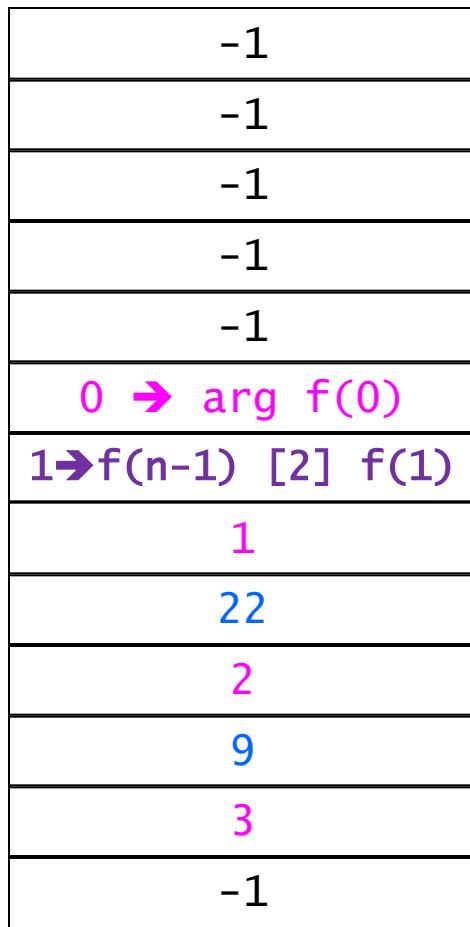
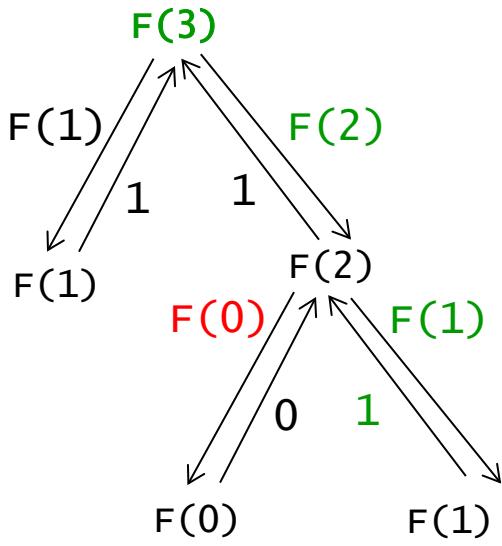


1  
AC

```

16 FIB: LODL 1
17      JZER FIBZER:
18      SUBD c1:
19      JZER FIBONE:
20      PUSH
21      CALL FIB:
22      PUSH
.
.
.
RETN
FIBZER: LODD c0:
RETN
FIBONE: LODD c1:
RETN

```



← SP

0 → (n-2) [2] f(0) AC

```

16 FIB: LODL 1
17      JZER FIBZER:
18      SUBD c1:
19      JZER FIBONE:
20      PUSH
21      CALL FIB:
22      PUSH
23      LODL 1
24      SUBD c1:
25      PUSH
26      CALL FIB:
.
.
.

```

FIBZER: LODD c0:  
RETN

FIBONE: LODD c1:  
RETN

