

Homework 7 Solutions

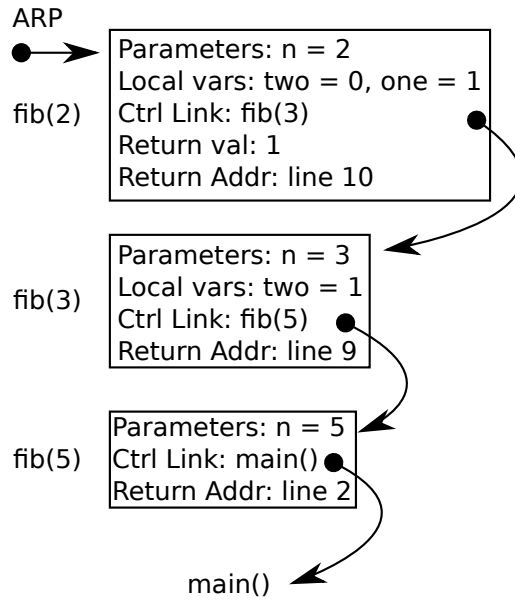
April 17, 2013

1 Fibonacci

1.a Trace

```
main calls fib(5)
fib(5) calls fib(3)
fib(3) calls fib(1)
fib(1) returns
fib(3) calls fib(2)
fib(2) calls fib(0)
fib(0) returns
fib(2) calls fib(1)
fib(1) returns
fib(2) returns
fib(3) returns
fib(5) calls fib(4)
fib(4) calls fib(2)
fib(2) calls fib(0)
fib(0) returns
fib(2) calls fib(1)
fib(1) returns
fib(2) returns
fib(4) calls fib(3)
fib(3) calls fib(1)
fib(1) returns
fib(3) calls fib(2)
fib(2) calls fib(0)
fib(0) returns
fib(2) calls fib(1)
fib(1) returns
fib(2) returns
fib(3) returns
fib(4) returns
fib(5) returns
```

1.b Activation Records

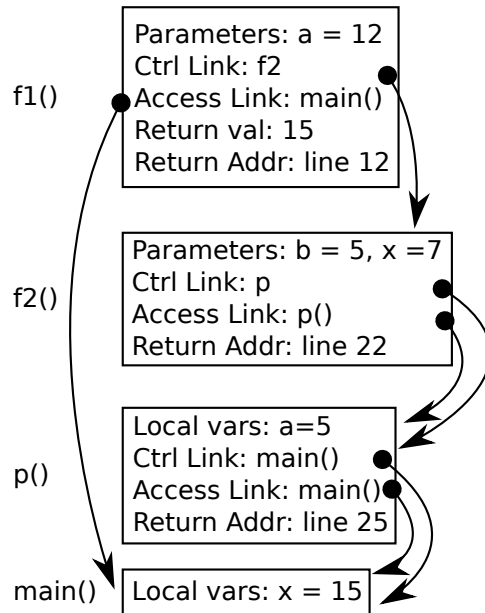


2 Pascal

2.a Trace

```
main calls p
p calls f2
f2 calls f1
f1 returns
f2 returns
p returns
main returns
```

2.b Activation Records



3 Pascal II

