

Q a

main

$f(in1, in2)$

$1 \rightarrow$

$in1 \rightarrow next = f(in2, in1 \rightarrow next)$   
(5) (2)

$1 \rightarrow 5$

return in1; (1)

$f(in2, in1 \rightarrow next)$

$5 \rightarrow$

$in2 \rightarrow next = f(in1, in2 \rightarrow next)$   
(2) (6)

$5 \rightarrow 2$

return in1; (5)

$f(in1, in2 \rightarrow next)$

$2 \rightarrow$

$in1 \rightarrow next = f(in2, in1 \rightarrow next)$   
(6) (3)

$2 \rightarrow 6$

return in1; (2)

→  $f(in2, in1 \rightarrow next)$

6 →  
 $in2 \rightarrow next = f(in1, in2 \rightarrow next)$   
                            (3)      (null)  
6 → 3  
return in1; (6)

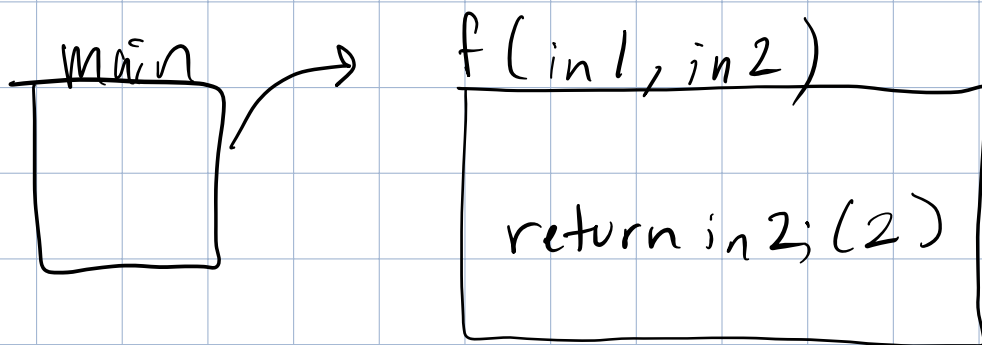
→  $f(in1, in2 \rightarrow next)$

return in1; (3)

6 → 3      2 → 6      5 → 2      1 → 5

1 → 5 → 2 → 6 → 3 → 4

Q6



Given that it never hits the recursion call in the else statement, the linked lists stay separately and never point to one another.

⇒

The code returns the linked list in 2.