

Problem 4

node # = node w value #

Question a:

base case is when either node value is null.

if rec (1→2→3→4, 5→6) → stack return (node 1)

node 1 → next = if rec (5→6, 2→3→4) stack return (node 5)

node 5 → next = if rec (2→3→4, 6) stack return (node 2)

node 2 → next = if rec (6, 3→4) stack return (node 6)

node 6 → next = if rec (3→4, null ptr)

return 3→4

it is changing
the next pointer

1 → 5 → 2 → 6 → 3 → 4

link list returned = 3, 4, 6, 2, 5, 1

Question b:

if rec (null ptr, 2)

in == null ptr

return in2

link list returned = in2 = 2