

Q4.

a)

$llrec(1 \rightarrow 2 \rightarrow 3 \rightarrow 4, 5 \rightarrow 6)$

else and
executes

$\rightarrow in1 \rightarrow next = llrec(5 \rightarrow 6, 2 \rightarrow 3 \rightarrow 4)$

$\rightarrow \rightarrow in \rightarrow next = llrec(6, 3 \rightarrow 4)$

$\rightarrow \rightarrow \rightarrow in1 \rightarrow next = llrec(NULL, 4)$

$\rightarrow \rightarrow \rightarrow \rightarrow in = 4$

$\rightarrow \rightarrow \rightarrow in1 = 6 \rightarrow 4$

$\rightarrow \rightarrow in1 = 5 \rightarrow 6 \rightarrow 4$

$\rightarrow in1 = 1 \rightarrow 5 \rightarrow 2 \rightarrow 6 \rightarrow 3 \rightarrow 4$

b)

llrec(null, 2)

→ in 2 = 2;

this simply goes into the second if statement and returns in 2 = 2.