Problem 4

a)

in1 = | 1 / P1 | — | 2 / P2 | — | 3 / P3 | — | 4 / P4 | — | Null |

in2 = | 5 / P5 | — | 6 / P6 | — | Null |

llrec(P1, P5)
↓
P1 → next = llrec(P5, P2)   in1   in2
return P1 ⟹ [1]

llrec(P5, P2)
↓   in1
P5 → next = llrec(P2, P6)
return P5 → [5]

llrec(P2, P6)
↓
P2 → next = llrec(P6, P3)
return P2 → [2]

llrec(P6, P3)
↓
P6 → next = llrec(P3, nullptr)
return P6 → [6]

llrec(P3, nullptr)
↳ return P3 → [3]

| returned: 1, 5, 2, 6, 3 |

b) in1 = null
in2 = $\begin{array}{|c|}\hline 2 \\ \hline 21 \\ \hline\end{array}$ — null

in1 == nullptr ✓ returned:

return in2 → $\begin{array}{|c|}\hline 2 \\ \hline\end{array}$