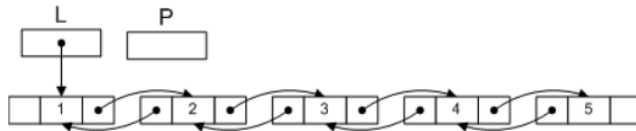


Sample Assignment 4. Discussed on 2020-10-05, *Not graded*

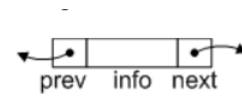
Question 1 (Pointer structure).

Given the starting state (shown in the image) and the pseudocode, draw the end-state after the pseudocode is run.

Initial state of the pointers/nodes:



The structure of a single node:



- 1 $P = L$
- 2 $P = P \rightarrow next$
- 3 $P = P \rightarrow next$
- 4 $P \rightarrow prev = P \rightarrow next \rightarrow next$
- 5 **if** $P \rightarrow info \geq L \rightarrow info$
- 6 $P \rightarrow next = L \rightarrow next$
- 7 **else**
- 8 $L \rightarrow next = P \rightarrow next$