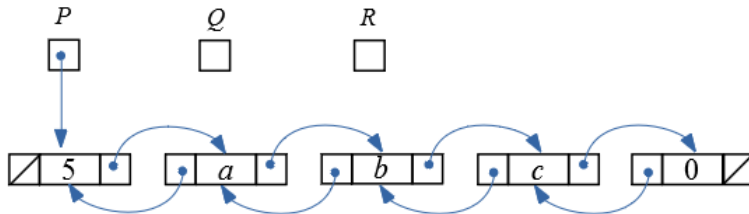# Assignment 4. 2020-10-07,
12 minutes

Question 1 (Pointer structure). Given the starting state (shown in the image) and the pseudocode, draw 2 pictures showing the pointer states after Line 7 and Line 12 of the code. In this example a, b, c are the last three digits of your Student ID.

Initial state of the pointers/nodes:

The structure of a single node:


```
1   Q = P
2   Q = Q → next
3   R = Q → next
4   if Q → info ≤ P → info
5       R → prev = P
6   else
7       P → prev = R
        (Picture 1: Show the pointers at this point)
8   P → next → next = R → next
9   if R → info ≤ Q → info
10      R → next = P → next
11  else
12      R → next = P → prev
        (Picture 2: Show the pointers at this point)
```