LAB-6

APPEND: HEAD, CURR, NDATA, NODE, DATA, NEXT, COUNT

1) CURR = HEAD.
2) NODE→NDATA = DATA.
3) NODE→NEXT = NULL.
4) IF HEAD = NULL
5)   HEAD = NODE.
6)   COUNT++.
7)   RETURN.
8) END OF IF.
9) WHILE CURR→NEXT != NULL
10)   CURR = CURR→NEXT.
11) END OF WHILE.
12) CURR→NEXT = NODE.
13) COUNT++.
14) END.

PUSH: DATA, HEAD, NODE, NEXT, COUNT, NDATA.

1) NODE→NDATA = DATA.
2) ~~NODE→NEXT = HEAD~~
3) IF HEAD = NULL
4)   ~~HEAD~~ NODE→NEXT = NULL.
5)   HEAD = NODE.
6)   COUNT++.
7)   RETURN.
8) END OF IF.
9) NODE→NEXT = HEAD.
10) HEAD = NODE.
11) COUNT++.
12) END OF IF.

ADDatPOS: HEAD, CURR, NODE, NDATA, NEXT, DATA, OFFSET, COUNT

1) NODE->NDATA = DATA.
2) IF OFFSET > COUNT+1 OR OFFSET > 0.
3) PRINT "Out of limit".
4) RETURN.
5) END OF IF.
6) IF HEAD = NULL.
7) NODE -> NEXT = NULL.
8) HEAD = NODE.
9) COUNT++.
10) RETURN.
11) END OF IF.
12) IF OFFSET = 0.
13) PUSH DATA.
14) RETURN.
15) END OF IF.
16) WHILE --OFFSET
17) CURR = CURR->NEXT.

18) IF OFFSET = 0
19) BREAK.
20) ~~END OF~~ END OF IF.
21) END OF WHILE.
22) NODE -> NEXT = CURR -> NEXT.
23) CURR -> NEXT = NODE.
24) COUNT++.
25) END.

NODE

PRINT : HEAD, ~~OR~~ ~~HEAD~~, NDATA,
NEXT ~~RECORD~~.

1) IF HEAD = NULL
2) PRINT " Empty List"
3) RETURN.
   END OF IF.
4) WHILE NODE != NULL
5) PRINT NODE -> NDATA
6) NODE = NODE -> NEXT.
7) END OF WHILE.
8) END.
9)