Week - 8 (29/01/24) of 100 SIL\_sout, servoise, concatination 1) Concationate => stauet node \* concatinate (stauet node \* 18st 1, stauet 6 -of Clost 1== (35+ 5) f section lest 2 stomet node upto = Itst 1; while Cotor + next != NULL){ pts = pts - next; pton > next = lst2; Ductum 1262) Brien dante Inouligne 6 racots burst live 2) sout => world southest Catamet node \* headle stands stands node \*pta, \* node next sole stands (ell plas head; (melon le (pton != NOLL) & hunts) deur d'av node ment = ptor - next) while (notinent! = NULL) & of Cotor - data > node next - data) Lemp = ptor-sdata; pto data = nederent > datas node amount >data = floop; nodement of nodement - ment; 2 pti sptr-mont ?

```
(3) Revouse > vord seevense ('stouet node head) {
              stauet node *pour, *current, *nextrade,
               pow = NOLL;
              current = shead;
              while Coursent 1=NVILY
               next note = current -> next; once 12
                 current -> nent = pour;
                pour som current)
current = nextrode
           *head = power, 1+36 = Atga stor Levis
   @ Implement stacks using Wester manager @
   -> word stouet stack?
                stauent note tap;
        vold " not stock (stouet stock +steet) {
           { stack + top = NOLL; now! to
      void push (stanct stack, *stack, int value)
          I stouch node + novemble = coused node (volue);
               number next = stuck > top;
     stack - top snewnote,
    of charte " death " stacks) goog took
           if ( & Bompty (Stack)) of
                    pt ( Underflower);
```

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Port pop N = stack - top -> data;
        stouct roder temp = stack -> top;
        stack - top = stack - top- sent)
           fore (temp); -
           section pop-N;
(b) Implement queue using single linked lest
    vold Ersert (Assurt queue & queue, 3rt value)
         stauct node + neumode = correcte node Ciroline).
           of (semply queue))
                  queue - foront = neurode;
                   queul peler = rewroder.
           elsé s
               queul-slar-ment = newoode;
                queul - sees stewmode,
 But dequeur (stomet & green popular)
              of Csimpty (queue))f
                     P+C" undustlow"),
       But dequenced value squeue stevent > date;
          stouct node * temp = queue > feient)
          if (queue - fount = queue - secont
              queue -> foront = NULL)
              que - gener = NULLI)
               que + faont = queve + faront + rest,
        free Champ);
```

O Roter your by choice: 1. couate alist 2 couate 1872 3, concettrate 5. crit Enter chase:1 Enter data: 3 7 6 27 1 7 NUXL Roter choice: 2 surp & surp timete) hant enter data is 6 7 f-78 - NUXL enter chose :3 Cost 1 soored enter choice informer = very Lost 1 serversed 175-3-NULL enter hora is concidenated the ware come + house enter choice +6 8+6+1 -6-7-8 - MUZL (Crostation ) Stack after pushing elements. 30 -> 20 -> 10 -> NOWLESS - Surgery poped value: 30 = 9 - 4 phon tank stack after popping element: 20 7 to ANOTE Top value : 20 / 100 mayor Pop value belove popping = 30

(3)
O(p =>)
Gueur after enqueing elements

10 ← 20 ← 30 ← NULL
Dequeur raller => 10

Queur after dequeuring element:

20 ← 30 ← NULL.