

Data Structure & Algorithms

Sunbeam Infotech



Linked List > queue has a linked list in which add/dd done from

```
two different ends.
                 class stroly_list &
class mode ?
                                                     private:
                   private:
                                                     public:
                       node " head;
                    Public:
                                                          wid put (int ele)?
I add-last (ele);
                        singly_list();
Z;
                        wid add_A-32 (int);
                        wid add_lar(mt);
                         usid add-atpos(int, int);
                                                            wid pop () ?
                         wid del- 8-02-();
                                                               J-del-Ast O;
                          (2) feel_lest ();
                          bool is empty ();
                                                            bool is empty () {
                          int get_flast();
                                                                much I. is mapy ().
                          wid del_all();
                          ~ singly_list ();
                                                            int peck() }

rhun light first();
                  3;
```



Linked List > queue is a v linted list in which add/del done from

class stroly-list & (restricted) two different ends. class mode ? private: class voy-queue: private snyly-list? node " head; Public: public: singly_list(); 3; wid pun (int ele) ? wid add_A-32 (int); add_last (ele); wid add_lar(mt); usid add-atpos(int, int); wid del-A-02-(); wid pop () ? und del_lest (); del_for (); bool is empty (); int get_flast(); bool is empty () { wid del_all(); when is much (). () fail y list (); main () & int peck () ?
whim get_first(); 274-9 mere 9; 9-push/ppp/peds/Bendyl)



Linked List > queue is a v linked list in which add/del done from

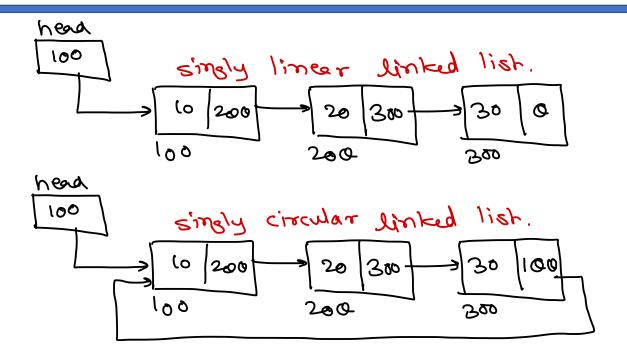
```
class stroly-list & (restricted)
                                                            two different ends.
class mode ?
                  private:
                                             class ony-queue: private
                      node " head;
                  Public:
                                                 public:
                      singly_list();
3;
                                                      Singly - list: add_layt;
                       wid add_A-32 (int);
                       wid add_lar(mt);
                                                      Sizely_list :: del-Grost;
                       usid add-atpos(int, int);
                                                      i hellin :: is outsit!
                       wid del-4-02-();
                        und del_lest ();
                        bool is empty();
                        int get_first();
                        wid del_all();
                                                              'm derived
                                          moin() &
                        ~ singly_list ();
                                                 274-9 vere 9;
                                                    9-add-læso (-);
                                                    g. del Brot (-);
```

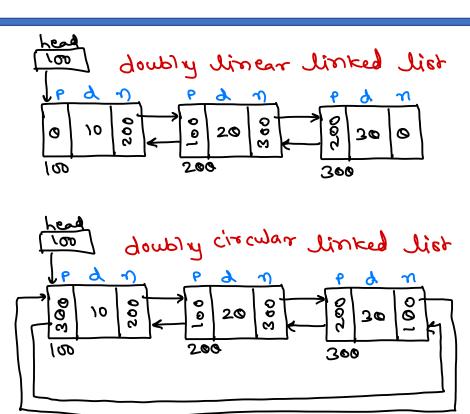


```
class stroly_list &
class mode ?
                         private:
  porrate:
                         public:
      int data;
                             Singly_dist();
                             wid add frost Clert 1) {
       rode 1 sept;
                                  node m= node(v);
   public:
       made () {
                                   record Ment = head:
        mode (int) { }
                                    Noog = sue, 1
                               wid disphy() {
    triend class singly-libr;
                                    onde & toans heed; ?
                                          cour ic boars data;
                                          your joans ment;
```

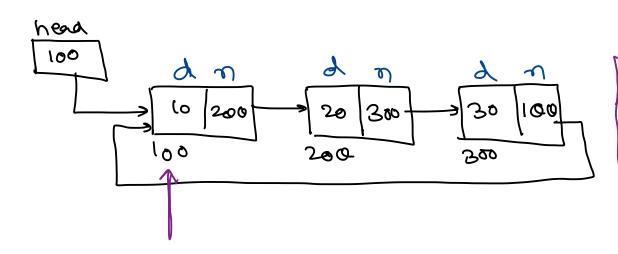


C++ friend keyword find class friend fors class B3 class X 3 class A ? private: possale: public: iest a: ish 900. 2017 plan Public: public: Friend wid Run (); wid F2078 friend class B; Pojerd class C: public A ? wid fun () } X obj; cont << 0 b', y;

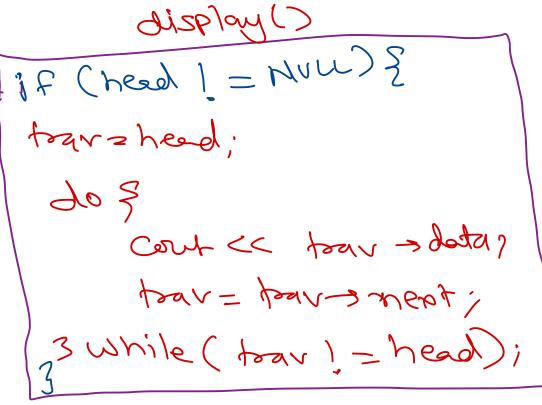




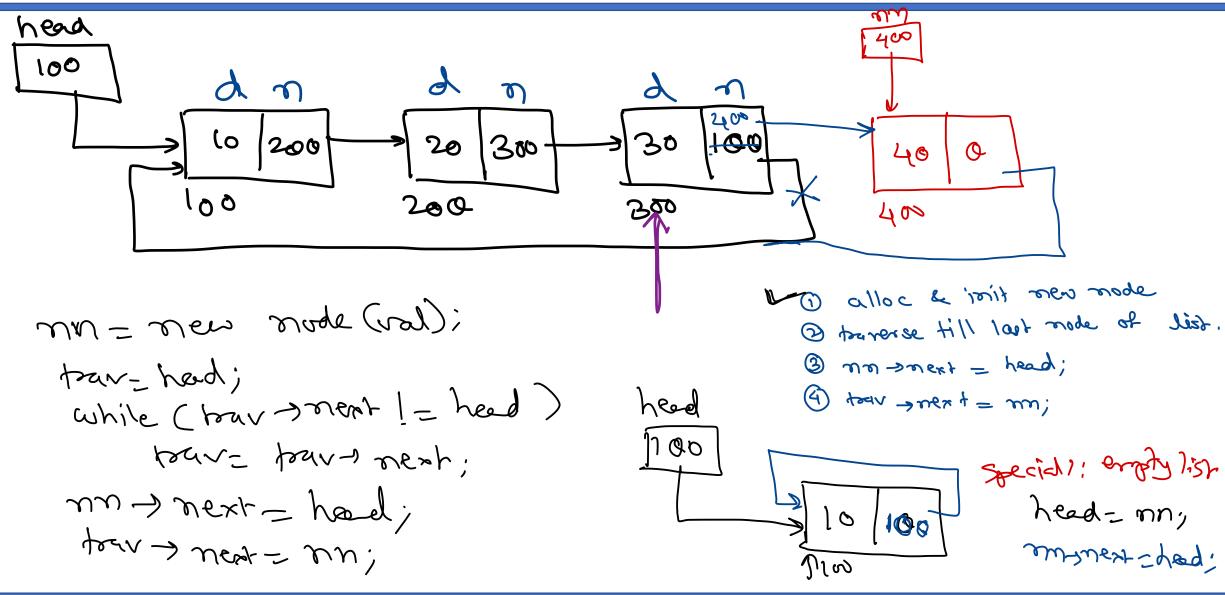




toav=head;
white (toav + next ! = head) =
cout < toav = doda;
toav = toav = next;

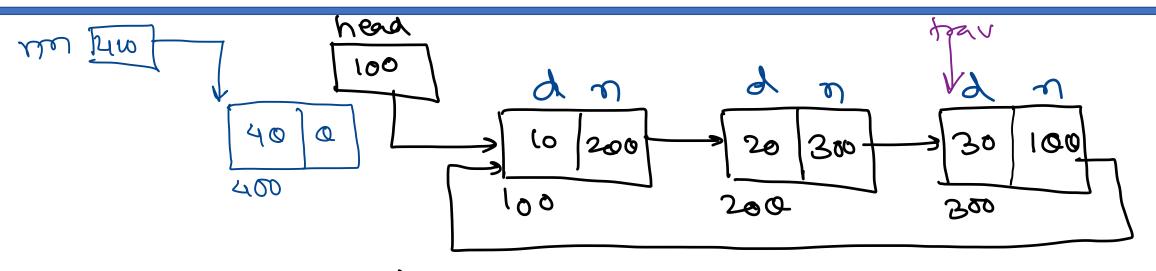












nn = new node (val);

trav= head;

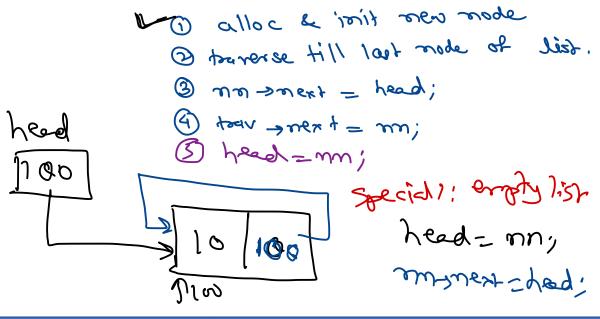
while (trav > nent ! = head)

trav= trav- nent;

nn -) next = had;

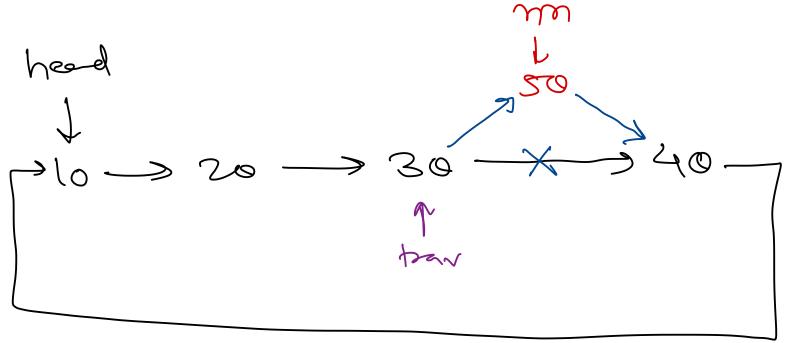
trav > next = nn;

head =nn;





Linked List stroly circular linked list and all al-pos.



Special 1: list is empty

add_first()

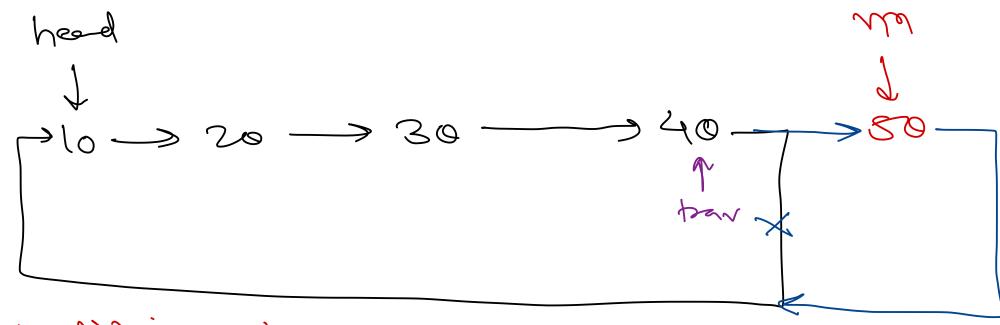
Special 2: Pos <= 1

add 8737()

special: pos > size (beyond las)



Linked List stroly circular linked list and all al-pos.



Special 1: list is empty

add_first()

Special 2: pos <= 1

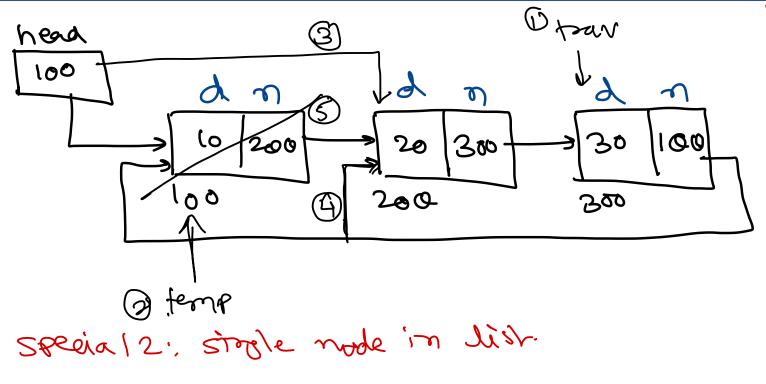
add_8732-()

Low - s were = own;

Special: bos > sixe (pereng low)

special: bos > sixe (pereng low)





- 1) traverose till last node
- 2) take first rode addre
- 3) take had to near note
- last unde bout to
- delete temp orde.

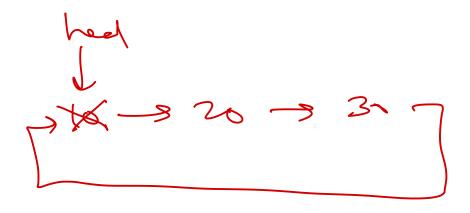
heal (60 10 100 if (head - nent thea)

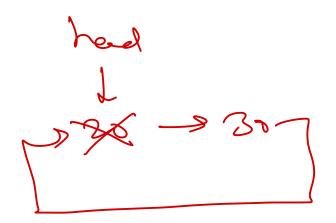
if (head - nent thea)

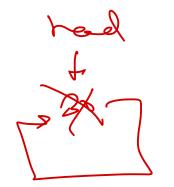
if delete head; need = How;

special 1; 1,8 list is if (head an only) segun n;









real !



 $\frac{1}{\sqrt{30}}$

while (had] = MULL)

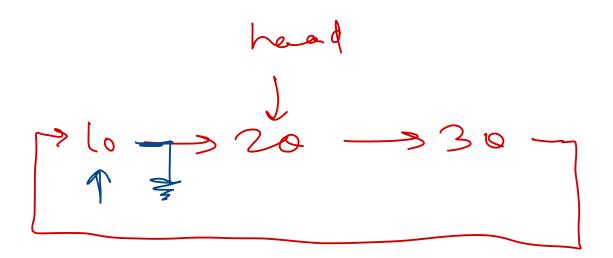
femp = bad;

head = head;

delete temp;

3

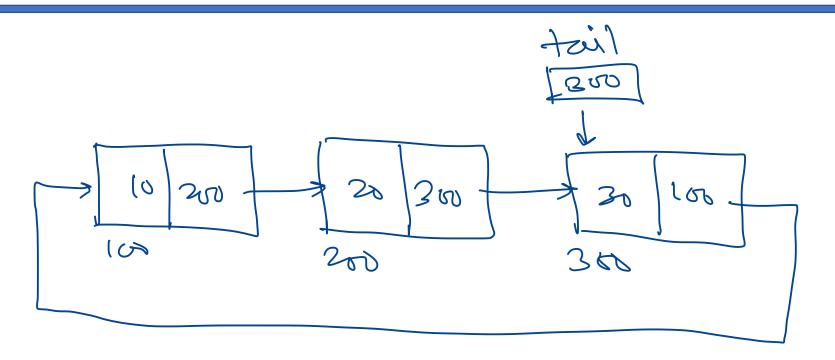




if (head ! = HULL) { fema = head; head = head > neat; temp>nest = How; while (had] = MULL) delete temp;



sizzely circular Mor. - assignment.



- Todd Fretco
- 3 del Brongo



Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>

