```
How to find the mid node in Linkedlist!
class Node
                                (wov for ) wasting brok
     public:
           int data;
           Node next; hand o-thus)))
  ξ;
int getler (class Node heady)
  }
      elect it ( fruit ) } // insert in cleaning
        int len=0;
        class Node* temp = head;
         while (temp) + (comp) = (reary) som
              lentt;
            (temp = temp -> nex t)
       Treturn len;
                        con [ruen] = value;
void print Middle ( class rode * head)
       if (head) }
           int len = getleral head soon Tono
           class Node* tomp = head;
                                            hure, 5 is
            int midInd = len/2;
                                             middle node
            while (mid Ind --) }
                    temp = temp -> next;
            << temp -> docta << endl;
```

boil of woll bim off Qur-02 Cinculan Queue: near 220 Void en Queue (int value) } :bildud if ((front==0 & & near== size-1) 11 Trean == (5=2e-1)) cout << " guene is functionally condition is fri else if (front==-1) } // insert 1st element front = rear = 0; and tread = value; (mot) divini (++119) ehr if ( rugn == size -1 && friend 1=0) } near = 0; rectumn len; our [ruar] = value; void priint Middle ( elans mode \* head) ( (base) 1; are Treas)= valuery top = not mi りたらいり class node tomp - head; int middled lon/2: 1 ... barbar ) 21 MW · from to dust - las.

from to turnerise a guine ? Legueue() } int if ( from == == ) cont << " Gueur is Empty " < cond); near raverteconer ( queux ( 10176- Queux) int data = arm [front]; aux [frimd]=-1; // initialize an -1 if ( front == near) figural. one element Slack punk ( guene for = inont June popl); ene it (front = size -1) that? 1) while Guene. push ( Stack Popel) Stack pop(1) elve frond ++; rutunn data;

. •

How to reevene a queue? ravoure gueur (queur (int) & Gueur) ave [-front]=-1; // initiatize on-1 stack Linty Stack; while (! Queue vempty (1)) } == tront ) }; Slack push ( Queue front (1)) Sume pop(); while (! Stack. emptr(E)) of brond. ) to me Queue. push ( Stack. pop()); Stack pop(1) it throst

void treverne Queue ( queue (int > 8-9) if ( q. size() = = 0) int fr= a. front (); Surriced Anney TO BST ( int anti) ( C) god prop int end raverse Queue (9); q. push (fn); if ( stank ; end) Bist ( from tran ) Sorted Anna How to creeas ( 12 3 5) 7 197 Wor = + wor # shoul rood -) vely = souled Amen Topal ( seem) stant, mid-) mood-) might = sented thing To Bit ( and, mid +1) end).

Tection recot

```
public: (8-8 chair muss ) mans surerest
  elass Trode }
            int data;
                                (0==1)95:3.5-) };
           Trode* Willi
            Trade* night;
                             int the of franci);
        Souted Annay to BST ( int ant ], into stant; int end)
Trode*
                            terom Bum (3);
                                  of proof fall
}
     if ( stand > end)
          tectum NULL',
       int mid = (stant mend) 12/3
      Sorifed Arrey 1
                                           kness of worth
       Trode * nont = new Node (ant [mid)).
       mood -) wit = souled Amor To Bist (int an, stant, mid-1).
      Trood-) Tright = sonted Amg To BST ( and, mid +1) end);
     return rout
```

Tree

print Inundua ( struct rude mode)

1-1 (node = = NULL) (12) (8) (24) (31) (44) (30 - 10 (99) repront ming

12 (2) 95 \* 1804 23 miles represent bion In-Onder Traversal: 4 10

50 (6 70 90 );

NOISTOST

18 24 75" 10 21/2 12 22 Nos Tuesd - Just - toon 25 Pre-Order Travorsal:

( Root -> ufl => Triguel) 31 (Hey Capper) respond 35 priconder (node-) nigur).

p 18 24 22 ) 15 10 4

( 35 66 90 70 pool 50 bio25 Post-onder Traversal: ( rest -> risks -> Rout) 44 35 31

( ) if ( node == nout)

( MOUDOST

( discression ) subno had

((Mill Capor ) who had

" Shahe show ship

```
Void print Inorder ( Struct Node* node)
         ir (node = = WULL)
           cout << node-> data. <<
               tutunn
          print Inonder (node -) left);
            printinonder (prode-> missel); ( ( ) ()
     void priconder (struct Node * mode) si or p : perovant sobro-
       if (node == NULL)
                                       11 as now -> left -> night
eoul << mode-) data << " "
                                             1 order Traversal:
                                       SE (Milia CHA + food
           priebrider (node-) left);
           pricondu (node-) nigm).
                                       onder Travorial: 4
  ? void 57 postonder (struct mode no bi)
                                       12.
                                              (toog - win + the
        if (node = = NULL)
                 return;
          post ander ( node-) might);
          postonder (node-) nasur)
          coul << node >data <<
```