





Linked List - Part VI

Course on Data Structure



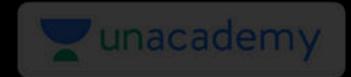
CS & IT Engineering

Data Structure

Linked List



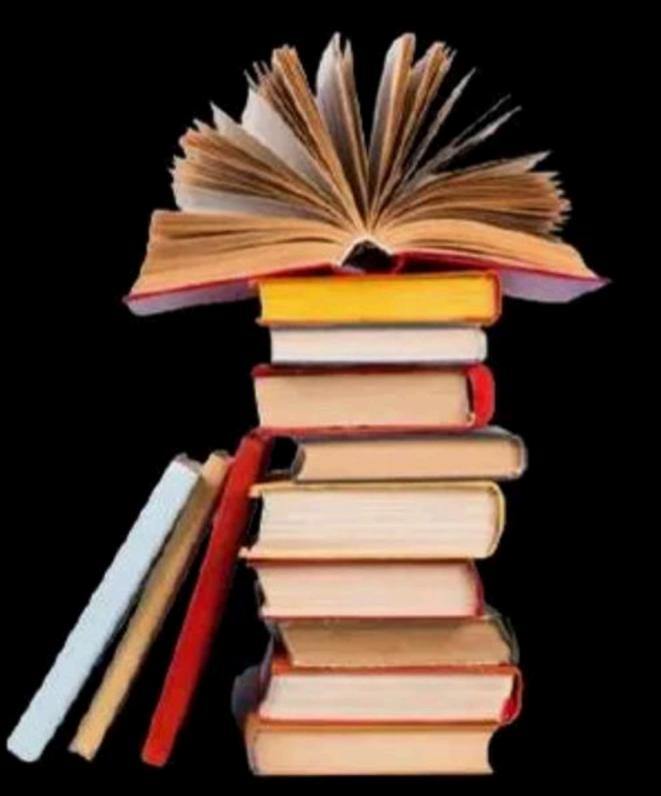
By- Pankaj Sir





Topics

to be covered



1 Linked List

Begin START & global variable

[160]

[10]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

[20]

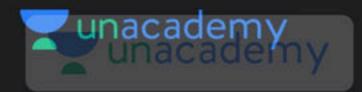
[20]

[20]

[20]

[20]

[20]



2 · Asked by Adarsh

sir II ke alternate node ko print kerne vala code plese ek bar

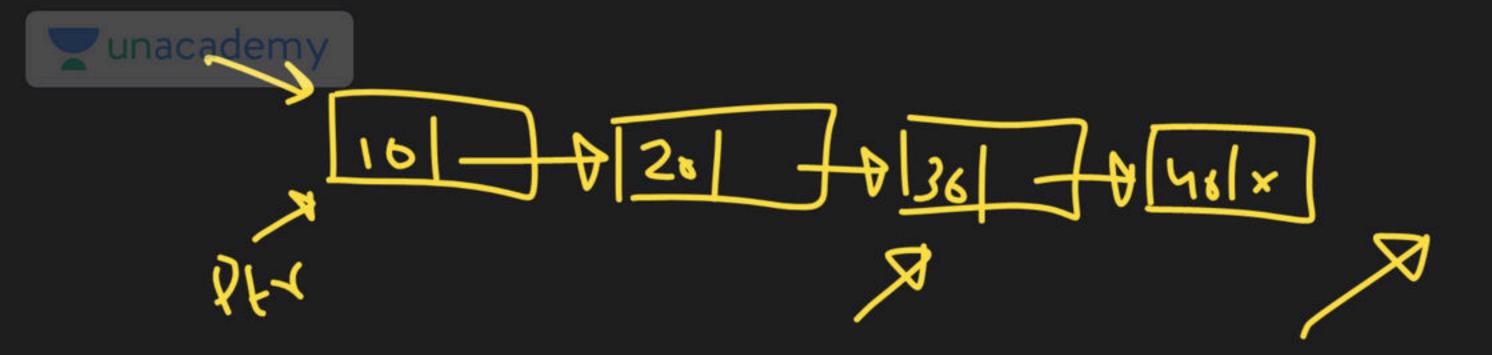
...

7/AR (1) (2) (3)
10/] + [28] + 4 [36 | M-1]
PHY

int c=1;

While (Ptal=NULL) if (c./2==1)

pf ("./.d", Pt1-rddq) Ptr-Ptr-Nert;



while (Ptr = NULL ft Ptr -) Next!
= MULL pf("/d", Ptr ->data); Ptv = Ptv -mext - mext;

unacademy

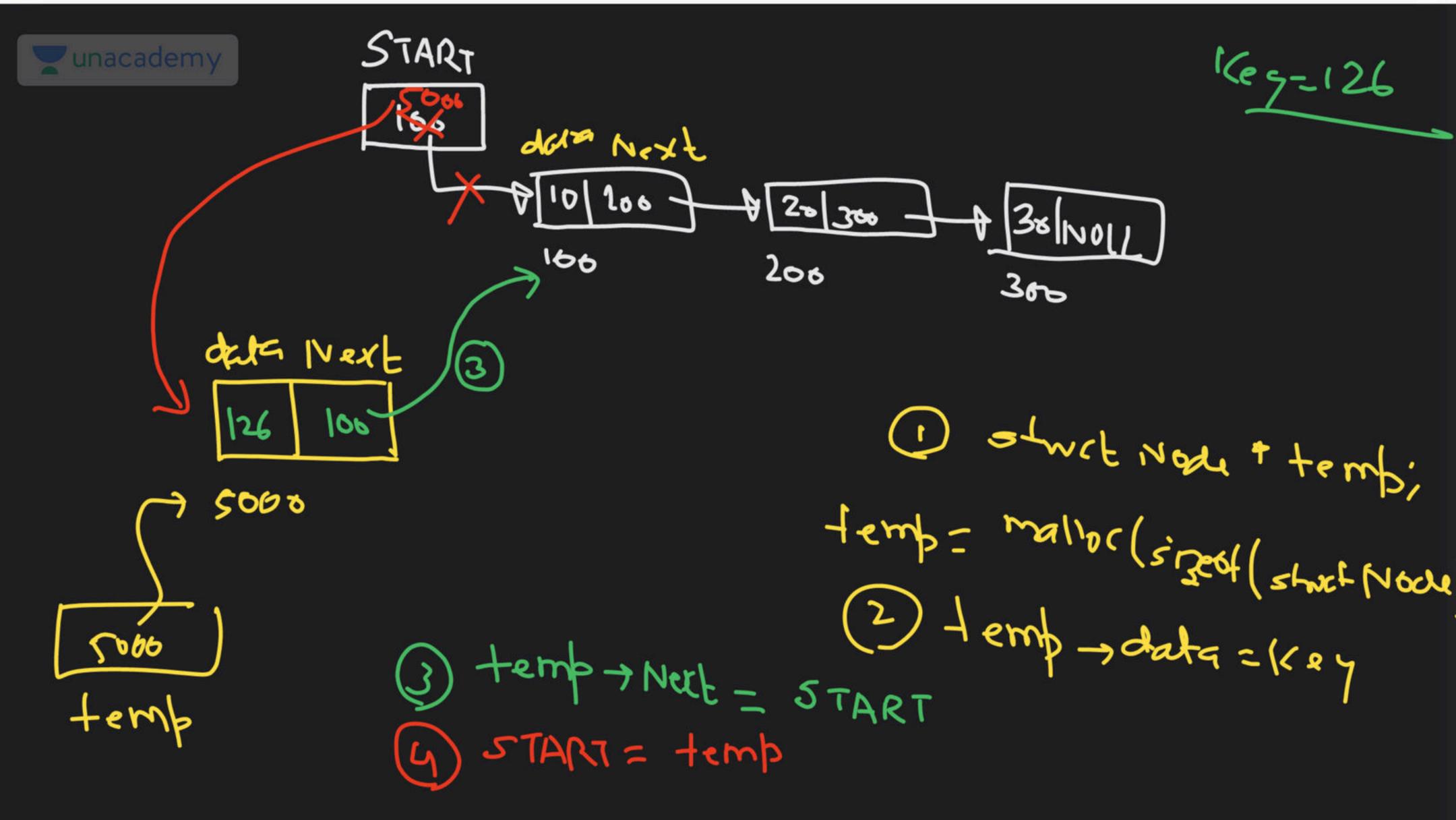
Jogic

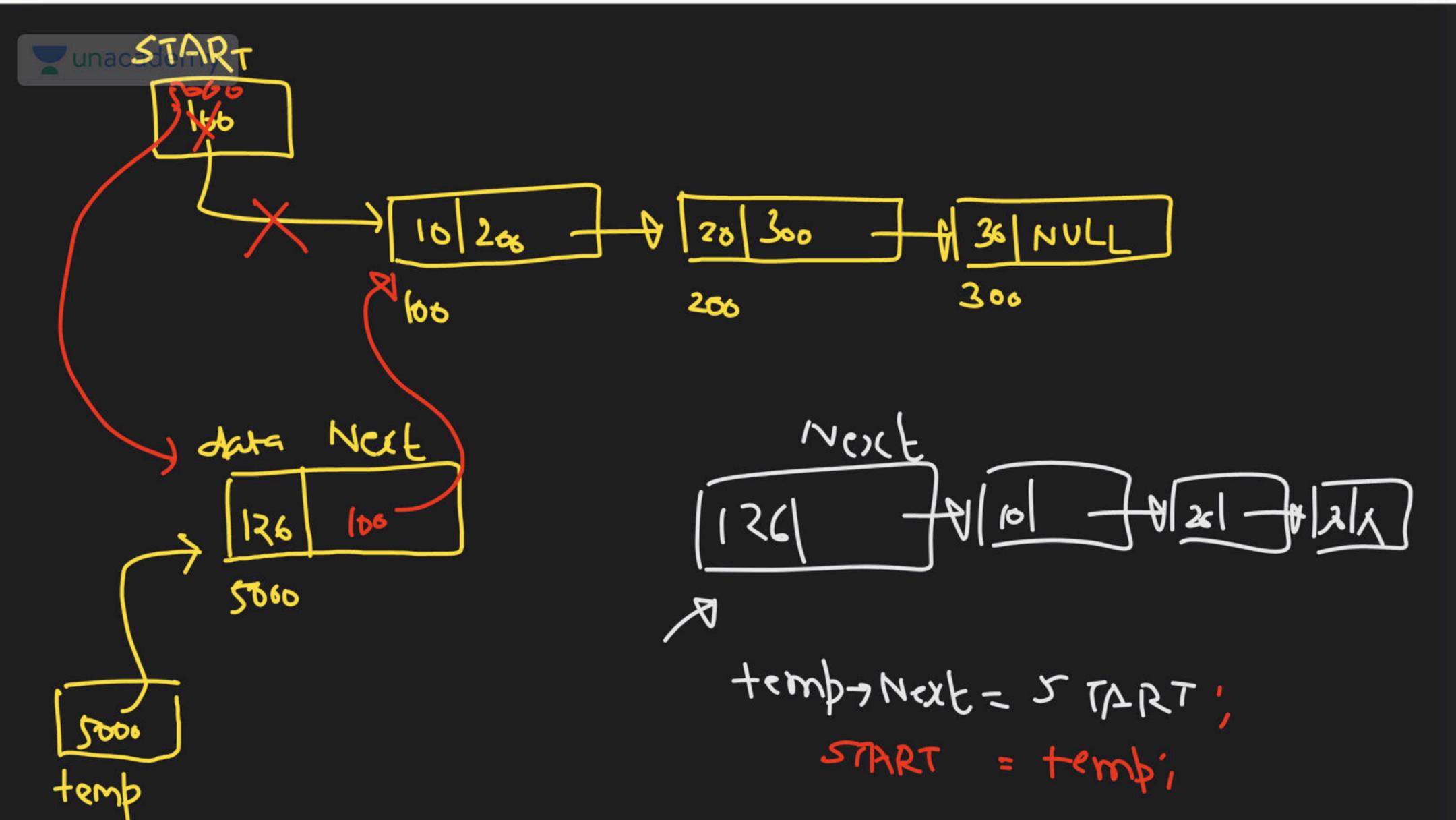
```
While (Ptr!=NULL Al Ptr - Next! = NULL)
```

if (Ptr == NULL) return;

if (Ptr >Next == NULL)

Pf ("./.d", Ptr >ndata);





voice Insert-out-begin (int key){ struct Node * temp; tem} = mællec (2,13 cot (2+m(+ Noge)); it (4cmb) = NOLL){ femb -> data = Key; temb -> Next = 57ART; 5717R7 = 4emp; }

void main() { Inserf (434); voide Insert-aut-begin (int key){ LAKEL struct Node * temp; + 6mg = warrec (2,13 cot (2+ort Mode)) if (temp! = NULL){ JOHN Next femb -> data = Key; temb-, Next = START; Frmp 571765 = temp: }

vois Insert at bring not stact Node void main[] strict Node *Start; int Key) Insert_at-brein (5tark 100) Start START START- temp,

volg Insert at bright nuch (stack Noch x5 TART, void main[] strict Node *Start; int Key) Insert_at-begin (5tark 100) START-temp,) Jalve

vold in sed at brigh (struct Node main() { struct Node * start; 'mt key) 2 struct Node * temp; Insert at bojin (listart his) temp=mulic(____); Start tempodata: Key 243 - 7 247 fempstrent = 457ART 5 TAR7 = +em+ ; X *START - temb: Y

Insert at End (START is global) unacademy 12/X/2/8+t_12

1) A[1] A[21] A[10] X

Milocate Nade * temp; temp = malloc(313eof (storet Node)); data Next temp -> data = Key;

temp -> Next = NULL;

Cast. [Lis Empty START=temp; Neturn.

MULL refer head lky MULL

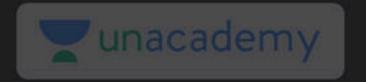
Year 1984 Mode - 72 ? -L'is hat Nexf Plex -> Hent = te my!

unacademy

Erson karlo Erson karlo Linkar struct hase * Pty; Ptv = START; ropyile (bfr -) Next, =MARI) Ptx = Ptx -ment;

void Insert _ at _ end (int key){ Struct Mode *temp, * DEx; temp = malloc (size of (shock Node)); it (temb) = MARRY) temp -> data = key; temp -> Next = NULL; L

if (STAR7 = NULL) 57AP7 = 4emp; xx+vn: PLY = START; Opyle (PFx-) Next = HALL PEr PEr Mat; 3 bfr white = + cmp;



Deletion from a limbed list

Begin DMA 5712RT START START (45x 2 NIX NUL

Case 2.

START 1600 16 MULL

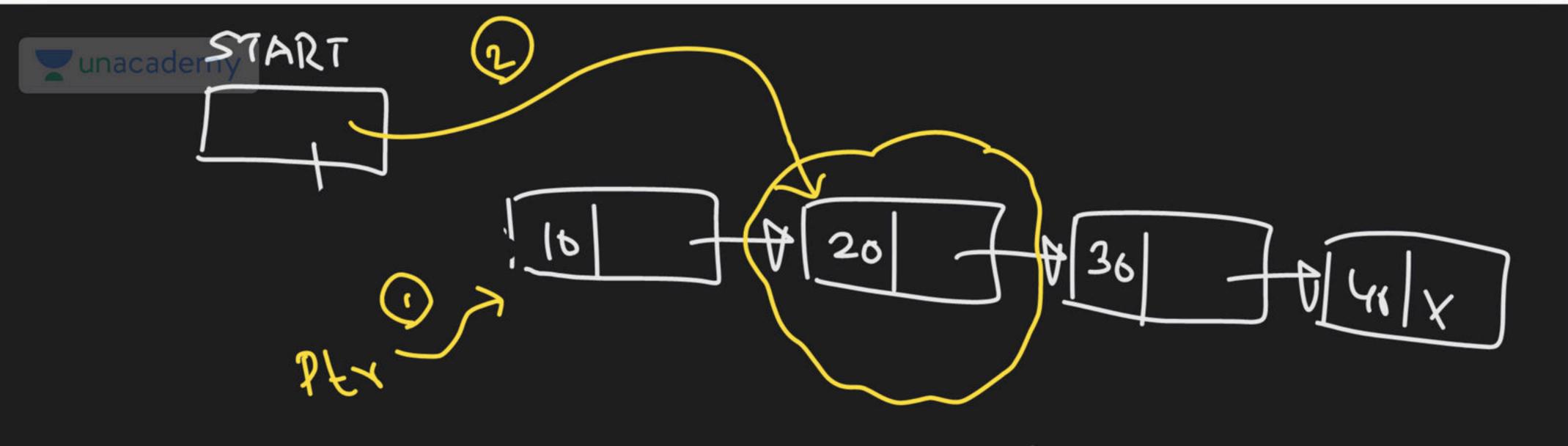
Struct Mode * Ptr;

Ptr = 57ART

START = MULL

free (Ptr)

NULL



Strict Noar & Ptx = START this will become

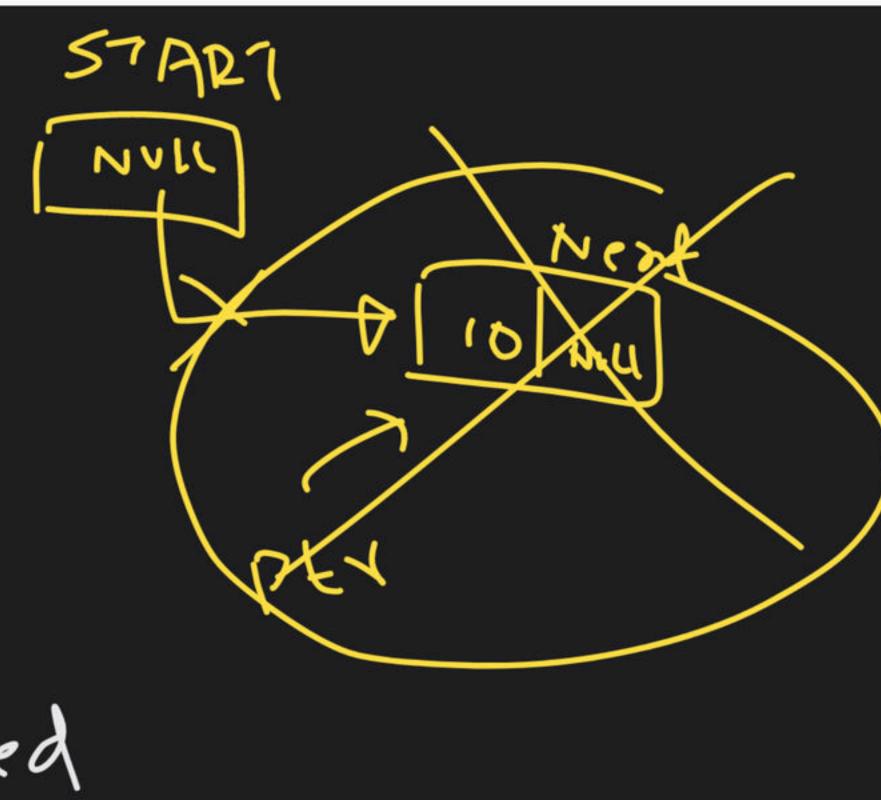
572RT = START - Next; with node

free (Ptx);

Gunacademy
(982 - 1983 (1983 Will hardle (982)
UV noet)

```
void delete () {
struct Nodu * Ptv;
 if (57ART = = NULL)
         return;
         Nock
     16x = 57ART;
  START = START THEXE;
        free I Plus'
```

void delete () { struct Nodu * Ptv; if (57ART == NULL) return; Nock 16x = START; START = START THEXE; free I plant



```
voit delute bigin(){
 Struct Nort *Pfr;
 If (START = = NULL)
      return!
  PLx = START;
  START - START-, Next;
    free (Ptr);
```

unacademy

Delition of last wode

(ase 1

START

STIXRT

Do hothing

>> retry

(9812

FI 16 NULL

Ptv = START;

START = NULL;

free(Ptv)

2 rodes After deletion this will becomes Leute to Set NULL Tramsa its vent field (6 vut Nodes







THANK YOU!

Here's to a cracking journey ahead!