LinkedList-1 Diagram

LNode *create_LinkList(void) {}

do while:

1) Head NULL

p NULL

- 2) Head 1 NULL
- 3) Head 2 NULL
- 4) Head 3 2 1 NULL
- 5) Head 4 3 2 1 NULL

void printList(LNode* list) {}

- 1) Head -> 4 list
- 2) Head -> 4 -> 3 list
- 3) Head -> 4 -> 3 -> 2
- 4) Head -> 4 -> 3 -> 2 -> 1 list
- 5) Head -> 4 -> 3 -> 2 -> 1 -> NULL list

LinkedList-2 Diagram

LNode *create_LinkList(void) {}

do while:

1) Head NULL



- 2) Head 1 NULL p q
- 3) Head 1 2 NULL p q
- 4) Head 1 2 3 NULL p q
- 5) Head 1 2 3 4 NULL p q

void printList(LNode* list) {}

- 1) Head -> 1 list
- 2) Head -> 1 -> 2 list
- 3) Head -> 1 -> 2 -> 3
- 4) Head -> 1 -> 2 -> 3 -> 4
 list
- 5) Head -> 1 -> 2 -> 3 -> 4 -> NULL list

LinkedList-3 Diagram

LNode *create_LinkList(void) {}

do while:



ElemType Get_Elem(LNode *L, int i) {}

while (p!=NULL && j<i):</pre>

if(
$$j!=i$$
) $2!=2$ FALSE
else { if($p==NULL$) {} $p==12$ FALSE
else {} $TRUE$

void printList(LNode* list) {}

list

LinkedList-4 Diagram LNode *create_LinkList(void) {}

do while:



void Locate_Node(LNode *L,int key) {}

while (p!=NULL && p->data!=key):

void printList(LNode* list) {}

LinkedList-5 Diagram

LNode *create_LinkList(void) {}

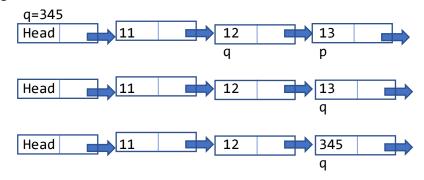
do while:

1) Head NULL

void Insert_LNode(LNode *L, int i, ElemType e) {}

while (p!=NULL && j<i-1):

else



void printList(LNode* list) {}

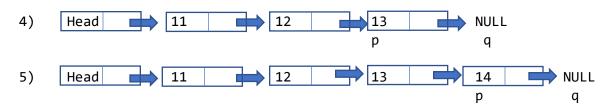
while:

- 1) Head -> 11 list
- 2) Head -> 11 -> 12 list
- 3) Head -> 11 -> 12 -> 13 list
- 4) Head -> 11 -> 12 -> 13 -> 14 list
- Head -> 11 -> 12 -> 13 -> 14 -> NULL 5) list

LinkedList-6 Diagram

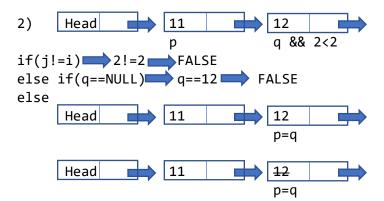
LNode *create_LinkList(void) {}

do while: 1) ₩ NULL Head NULL NULL q NULL 2) 11 Head NULL 3) Head 11 12



void Delete_LinkList(LNode *L, int i) {}

while (p->next!=NULL && j<i):</pre>



void printList(LNode* list) {}

while:

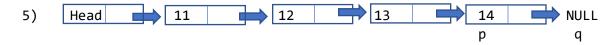
LinkedList-7 Diagram

LNode *create_LinkList(void) {}

do while:



2) Head
$$\longrightarrow$$
 11 \longrightarrow NULL

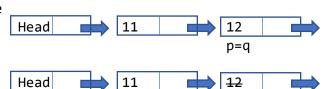


p=q

void Delete_LinkList(LNode *L, int key) {}

while (p->next!=NULL && j<i):</pre>

else if(q->data==key) q==12 && key==12 TRUE else



void printList(LNode* list) {}

3) Head -> 11 -> 12 -> 13

4) Head -> 11 -> 12 -> 13 -> 14 list

5) Head -> 11 -> 12 -> 13 -> 14 -> NULL list