wrote a programme . To meer r and delet an clement of the nth and both In a lentred list where nand lo are top from acc. # include LSt. dio. his # Enclude LSt dlibby struct node & ent data ? struct node x neut. Struct node & head ; void Preent (int. doler, ant n) & note & temp = new node (): temp - dola = data: -temp - neut = Nudl: 1/ (n == 1) { -temp - nent = hand; head = temp; return " road delete _ lint b) { Struct node A temp = head; · if (k == 1) f. head = temp - nent: free (temp); return . Shot on Y15

/ivo Al camera

```
plode & temp = head:
  for (Poli = 0; 120-2; 1++ 12
  temp = temp -> nemt
  temp nent = temp - nent.
   temp - nemt = temp",
    void pront ();
     for ( onl =0; 141-2; i+1)
      temp = temp - , nent.
     free (temp);
    ent movem () {
     lov nimb- :
     head = NULL;
     prost f " Enter the pastion for and accerting
     scant [" old " In);
      Scarf (uded " fn);
     Christ
       preser (n/n);
      pront ( u Enter the position to delete ).
      scanf ( % d", / t).
     Delete (x)
      Anon A (no);
Shot or the
```

@ construct a new landed list by never aller nations nodes and two kor for Enample in linked lair 1 we have & 1-22 and west & 4,2,63 witz and in the new we should have, &1,4,2,5,3,67 If Enclude Littero. h.1 # include Lordishih Struct node & in dola struct node & next; Vood pront lost listruct node * head) { · prontf (4 % d -> ." (ptr - date)); pti = pti - ment = printf (" Nucl In"); word push (struct node it head, int date) struct node * new = (struct node) mallo C. (size of (struct node)) new > data = data; new -, new = * head; of head _ new ;

```
struct node & merage ( struct node Da, chuer note
    smuch node faibe;
    chuet node x leil = face,
    Luce - nent = NUCL :
     while U) &
    if la == NULL) {
       tall -) nenr = b
       break &
     else of (b = NULL)
      tail - new =a.
      break;
     9. tail - 1 new = a:
      tail = ao
       a=a-)nent
      -tail - nent - b'
      return flace false rent;
  vou'd main () {
  Ent Keys [] = [ 1,2,3,4,5,6,2}
   Int n = soze of (keyx) / soze of long [6)
   Struct node & a = NULL & xb = NULL;
      for (int i = n-10, 1200, 1=1-a)
```

for (int?=n-2; ">=0: ?=?.2);

for (int?=n-2; ">=0: ?=?.2);

pust (xb: key [:]);

stouct node * head = merage (a,b);

print list (head);

```
3) I sad all the elements on the stacke
 whose sum er aqual to 6 . (where to ir.
  gover by the wer
# include < stdio. h)
  rood fond (invarred on n, mrs)
      int sum = 0:
     inv 1=0, h=0,
     for (l=0; Kn; l+t)&
        mbile Crum LI, & h Ln)
          sum + = arrEhJi
        if (sum = = 5)
        proort ("found")
         neturs, &
        Sum==arr[#];
    ant made (voild) {
      ant ar [] = { 2,6,0,9,7,3}
       Ink /=15%
       into = esse of (an) / cogge of (an Pol)
      find (arr, n,s);
      veturo.01
```

```
4) wrote a program to pront
element on a grique.
· (i) in surerse order (ii) in alternal
    rathro
 # indude Lordio. W
 # Include 2 std lib. W
    Struct node {
          nov douta
  struct node Anent,
    void pront ver ceruel node thead ) {
    if (head == NULL)
         returns
        pront per ( nead -) nent);
         proof ( " o/o d" head - data)
        brouth (= x1
  void push (arnot node & head ver, clar no
   Struct node - new = (struct nodex) malloc
                (soze at (struct node));
   node - new - ) data = new;
    node _ new _, nent = (had 4 _ ref);
     (* head - ref) = node - new;
    ant main ()
       Struct node & head = NULL.
```

puch (& head, 4). puis (x head , 3); push (phead, 2); pront + new (head): px. pront alternate (head); return o?

(B) (i) How away or different from the linked list difference between array sof The major linned her regards to their structure Array : are enden based data structure phère each element associated with an reference to the premious and next element (ii) write a program to add the first element of the one list to another hist for Enample we have \$1,2,7,3 \(\frac{4}{2},1,2,7\frac{1}{2}\) in list 1 and 24,5,6} in hist 2 we have go to get 541,2,33 ass as output list I and 25,63 for ledt 2 I include List ans fronclude 2st dio. h). It melude Livdio. h). struct node env data; Struct node or next ? void push Estruct node & + head - ret inknew-data)

struct node & new_node = (4-ruct node x) mallor cose at consuct new new_node => data = new_data; new-node = nent = (x head - vef) (*head-yet) = new-node: void pount list (struct node * head) struct node & temp = head: while (temp! = NUCL) 1. point f (" of d", temp =) dute]; -temp = temp = nent? pronte (" \n"): Troid merage estruct node * p. struct. index void merage estruct node xp, struct node xx91 struct node * p= curr = p, & q= Gurr = *9; struct node Ap-neut, xq_nent =;

p- new = p-cur = new o

9 - rent = 9 - curr = nent

a - new = new = p-new 1

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```
p - any = nent = q- cury.
 Premis = new :
   p-curr= p-neut;
   q-cury = q-nent:
  xq = or - curr
lov moun ()
  struct rode & p=NULL 199=NULL
  push ( P. P. T)
   puch ($ p,2)?
   push (pp, 3);
   prontf (" First linked list. In");
   prontlist [P]:
    push ($9,4);
    puch (xa, 5);
   pronte (" second lenked lest : [n");
   prontlest (2);
    pront ( moditied first unded till = 10");
    medage (podar)
     print f ( u modified second landed last 10%).
    pront (p);
     printf list (V);
      get char. ();
       return o;
    Shot on Y15
```