```
Assignmenb - 4
                                                D. Gineeswar Varma
1)
                                                AP19110010557
   #include (stdio.n)
                                       · desart TrocsE+Food
   # include <stdlib. h>
                                              Free (temps):
     Struct node {
       Into data;
                                             3 () nom dri
       struct Node *next;
                                                J. y, M dal
       3:
                                              : 11UA = b. 59d
       Struct rode * head;
        Void insest (int data, int n) [ moided and adas") Idas
         nade * temp=new node;
                                    : ( rit , " 6 00 ") From
         temp -> data = data;
                                   SORF ("6 d" 4 K):
          bemP -> next = NUII;
           if (n=-1) {
                                         : (M.X) desent
           Bent -> next = head : | noideof sid widner ) Idans
         head = temp:
                                   (43 " 6 N°") 7ms2
           return:
                                           ( ) ) steller
                                            (x) idas?
        Void delete (int K) {
         Structs node temp= head;
                                               * Mouth
          if (K==1) {
          head = temP-rnext;
                                    Knowlde & skupmit
          Free (temP);
                                   K d. albita & Lindille
           xe turn :
                                         I show here
                                           · white soil
          Node * bomP = head;
          For (int 1=0; ixn-a, i++1) Eri + two dente
           temP = temP -> nexb;
                  ( Luse * stand Jourde") doll down Low
```

```
H develop BZA
  Void Print (1;
                                           Englished & Studies (1
   For (inb 170; 12120; 1++)
                                          2 March 18 de la March 2011 Al
    bemP = bemP - + nexb;
                                              fr skar dounds
    Free (bem.P);
                                                : industs dril
                                        I don't kun dans
    int main () E
    inb n, x, t
                                       : to at * stort double
     head = NUII;
     Prints ("enter the Rosibion (For inserting !! ) 3 2011 box
                                : borner . Tried & skort
      Scanf ("%d", 4h);
                                  : olub + which & - amod
       scanf (% d", 4 x);
        Insert (k,n);
       Rinks ("enter the Position to delete");
                                        thed - Losed
        Soanf ("16d", EK)
                                             · rectifier
        delete ( );
                                    ) ( a doil dolla boy
         Print F (X);
                              ( bond " Trod " stort doubt
         return;
                                        361004) 1
        3
                                : deans-trad = board
       # include < stdio.h >
2)
                                       Free (Lemp );
       # include Lstdio.h >
          struct mode (
          into data;
                                   Land Fried & should
         struct node * next ; ( o mat : out doi) of
         Void Print list ("struct node * head)
```

```
Pumber ("old ->", (plx-+dobo);
    Pb = phr -> rext:
 Printer (" Noul / n");
  Void Rish (should trade tread introduted)
   struct node * rew - (struct node * I maioc
    hew -> doba - doba; dead and must a
     new -> next = * head;
      * head = new;
                        (2 post) 10 ms. 2 = mini
                             Street how have buris
      Street node * merge libract node *a , street node * b)
       3 buds hade Pake;
        Street rode * Pail = fake;
        where (1718) spensor - bood * send doubt
                            ( Count) dell' Handl
        if (a = = hull)
         Fail -> next - b;
                                expenses monit
         break;
                   I had an a padril look dail that but
         cise if (b-mill)
         Fall -> rech-a;
          break;
                         ( DSERA - 12 west)
```

```
: ( white = = add) " = = Ldo") Idraff
   Cisc
    3
                                 : din < - 189 = 89
    Fall ->next =a
                                    · ("a) (" ) (dass)
     Fail = a
     a=a -> next;
     Fail -> next (=bib dal bosh & stort dounds) rect brow
      3
             sound * how dounds) - ain * show dounds
     Ye burn Fake next;
                            : whole - whole - wind
     3
                             · bood * - dien < - wan
     intn = size of (Keys)
                            : cusid = boad
       Struct node x a = nui; xb=hui;
    d'abordune i = n-itiri>0 sitili-aujum " obori dante
         Rush (4a, Key [i]);
      For (int i=n-Q; i>=0; i=1=2) otor dude
         Rush (4b; Key (3)); war door buids
         Struct node * head = mexage (a,b); side
         Print F 1:St (head);
                                (1141 = - D) Ti
                                 July - Knext - Lat
3)
      Include (station)
      void Find (int or[], inta, int K) {
       int botal =0
        int 1=0,4=0;
       Fox (x=0; x < a, x ++ ) {
        While (total CK, ++4ca)
```

```
botal = acr[4] way toi [ ] x and soi) on we tow
     3++;
     if (total == 0)
                                 (1. (1) didu
      Punts ("Find");
       seprim; 3
       botal -= an [x];[3] 20012 = [x 4] 20019
       3
                               : 14 Y . 1 X
       int main (void) { (x* st*) statul
        int an [] = { 9,10,18,4,1,2 ]
        inb K= 565;
         int a - size of (arr) (size of (arr (0)));
        Find (an, a, k);
         xeturn 0;
                               : 1 + 90d = 90d
             Principle ("Enler voice Radion 15").
4)
     i) # incude ( Statio. h > moss
        # define max 20
                          Stack clop and 2
         void show (int stock [], intsize, int top)
        5
                 sky Cslack Asia, in will
        int i; ( state ) sugar , state ) serarak
        Fox (i=0; ic size : i++)
        ş
        Print P (" in value or " dis "distop, stack")
          boP = boP -1;
```

```
Void severse (int stack [], int & veue [], int to , int &
 E
   F=0;
  White ( 6>-1)
                             ( " boil" ) idas
      x- * x+1;
     Queve [*v] = stack [*b]: [] "
       * 6 - * +n;
                           3 ( bou) mon da
       While (*FZ= *x)
        * F= * P+1:
       ٤
    · ((Stack [*t] = evene [*p]; odd
        * F = * Ft1; (x, 0, x, 0) on?
                               O Milds
        toP = toP + 1;
        Print ["enter value Position is");
        scanf ("", d", & item");
                        t fore mox 20
      Stack Ctop = ; tem;
  ( Ted 7 day, assistant, ( ) words day a words bout
       Slow (stack, Sze, bop);
        Yeverse (stack, queue, & toP, Erear, & Front)
       Punde ("ARber reverse");
Show (Stack, Size, bop); ,,
```

```
ii) It include cataloin>
   # include Lstdib h>
       Struct rock {
                 the Control of Control on Clean
     int data;
       Struct made * next;
      Void Print rodes (Struct hode & head )
         int count -o . promon a recessor
         while (head; = null) { del bornil
          if (count 1/2 = =0) {

(out one of out of dell order) (1)
   PROFE (" . d" head ) -> daba ))
The Council De 19 Howers
    2) hamber a crossing is not the tidroon is
          head thead => next : " w thousand
   3 assert the testing of a colored out (8
     struct node × new-rode - (struct node)
             hew-hode-data = new-data 1.
             hew -hode - nexb - (* head - ret);
              (* head - reb) = hew - node;
               into main ()
                              -bod doubt
              Rish (Ehead, 1,2);
              Rish (chead , 20); det do
              Rish (Ehead 1, 23); I was
              returno;
```

- 5) i) How array is different from unk histi.
  - Array
  - 1) An array is collection of Clement of Similar data type.

KHI directed sections in

- 2) Away clement an be accessed vardomly in
- 3) Data element are stored in countinuous location in memory.

## linked 1136 3 [ 11 Und = ; board ) should

- 1) linked list is Collection of element of same byte in each clement correct using Binters.
  - 2) Random accessing is not Possible nlink list Gement with accessed Sequently.
    - 3) Now Clement can be sorted any where E seference is created for new element using Pointers.
- # include estation hy hor and

  # include estation hy

  Struct hode

int data; come when by

```
Void Rish { sbuck node & & head - ret data }
 Struct node + new node - [ Struct node + ) maine
   hew-hode -> data - new-data)
    hew-hode -> nex c: head - rer);
       ( t head - ser ) = hew hode
     Loid Print list (Struct node * head)
       Struct node = StemP = head:
       while c temP = huil )
       Eprint P (" ", d", bemP -> data)
         temp = bemp -> next.
         Print (" In" 1; )
```