```
# include < stdio.h>
  # include < stdlib. k>
  void ins (node *, int, int)
  int size = 0 ;
  struct node
   int data;
   struct node * next;
                                    ( b) I to be a dyne of drawn
Mode # get node (int data)
E
 Node * new node = (struct node +) malloc (new node);
  new node -> data = data;
  new node -+ next = rull;
 getern new rode:
void ins (node * current, (int pos, int data)
 if ( pos < -1 11 pos > size +1)
     prints (" Invalid ").
 plee
  E while (pos --)
    ( las = =0)
                                             the party of
```

```
node * temp = get rode (data);
       temp - next = * awarent;
        * awarent = temp;
      elso
      august = 41 (* august) - next;
     Size ++;
  ż
 void print (strut node * head)
   while ( head ! = NUL)
      prints (4 v. d", head + data);
        head = head - neat;
                                  this this w
   (" m") thing
3
 void del (struct node + head ref., int pos)
?
if (head-of = = Hull)
  gretwen;
                                     Mitch di vost " About
  tem p = head-ret;
if (pas =0)
* head acf = temp + next;
```

```
Free (temp);
     setour:
                                  1 Lps - 1, i++)
  for (Int 1=0; temp! = NULl
                           aa
       temp = temp -> next ;
       free (temp -> next);
       temp -> next = next;
  int main ()
                                       A. . A. & Was to a
    struct node + head = Hull;
    push ( or head, 7).
    push (4 head, 8);
                                  and the star evil, by offices
                                           1 myly , 11
    push (9 head, 6);
      ins (9 head, 7,15);
                                           and the state of
     del (a bead ,4):
     pulnt list (head);
                            that I be something they
   oration (0);
                        e allowed down and the
                            and the state of the state of
3.
                                             Just by I was
                                                  3-11 . 11 . 1 . 1
```

A CARLON

La Him La

at the desire and a desired and a desired

```
2)
       # Include Latdio. h>
      # Include Letalib. h>
      struct node
                                              ga ca got al
      int data;
      struct node * next;
    void print list (struct nade * head)
                                                         1 1 1 4
     Struct node + ptr = head;
                                          Published & day day
     while (ptr)
                                                grant day of the
                                               All the state of the same
        print f (" y.d_", ptr +data);
       ptr = ptr -> next;
                                               in the things
                                              the fall of the
      prints (" HUU/4).
                                               I'V LANDY Like
                                                  Unrolly of it doing
  void push (struct node * head, int data)
   struct Node + new = (struct node *) malloc (size of istruct node));
   nao - data = data:
    new - next = * head!
      * head = new .
 stauct node * merge 1 struct node * a, struct node * b)
 Estad nodo domy;
  struct mode + tail = domy
  dury . next = Null;
```

```
while(1)
        if (a = = NULL )
         tail + next = 6;
         brook:
       relse If (b== NULL)
       5
        tall - next = a;
        break;
       else
        3
        tail + next =a:
         tail =a:
          a = a +next;
           tail = next = b
           tai /= 6.
                                       + bout of the skeet
           b= b + next;
   retain dung next;
void main ()
5
int bys [] = {1,2,3,4,5,6,7);
int n = size of tays 1 /size of tay co].
struct node * a = Null , * b = Null;
for (int i=n-1; i>=0; i=1-2)
```

```
. push ( an , keys [ i] )',
for lint 1=n-e : 1>=0 ; 1=i-2)
    push (and I kay [i]):
 struct node & head = merge (9,6);
 print list (head);
  # include < statio. hr
  roid find (int ave ), int n, ints)
    int sum = 0.
    int 1=0 , h=0:
    for (.l=0; l<n; l++)
      while (som < = 9 a h < 1)
         cum + = ar[h];
   if (sum == s)
                                               · 中国文章
    print (" found");
                                              Ir licher I -
    newson .
```

3

3)

```
Sum = = qY[1];
  3
3
int main (vold)
3
 int ay [] = { 2,6,0,9,7,3}
 int 3= 15;
 int 1 = size of (ar) / size of (ar(o]);
 find (av, h, s);
                                                      sichon 0:
# include cstdio. h>
# include coddlib. 1>
   struct node
 int data;
 struct node * next;
void print nev ( struct rode * head)
{ if (head == HOLL)
    notoun;
 print one v ( head + next ).
  balyt (1, 4, 9, 1 ( ) ( ) ( ) ( ) ( ) ( ) ( )
void push (struct hode * head set, chasines)
```

```
struct node + node new = (struct node +) malle (size of (struct node);
     hode no - data = nas:
     no de new - next = (*hard-sef):
    (a head . over ) = node _neo
int main ()
     struct rode + head = Hall:
     push (a head, 1);
      push (orhead 13);
       puch (a head 12);
     print reo(head); print alternate (head);
      networn o;
void print alternate (struct node & head)
 int court =0;
while (head ! = NULL)
    if (court 1.2 ==0)
       court ce head > data << ";
       count ++;
       head = head - heat;
```

```
5) # include coldio. hy
   int main ()
    ind a I [ 100], as [100];
    int i, or, pas, n=10;
   for (1=0, 1210, k++)
   (1 [1], sp , vb , ") from
    scanf ciy. d", aaz cij).
  for (i=0; i<p, i++)
    (17. d", a (17)
    printf (" x d" , a [2])
7 = 92 [0];
POS = 1-
 h+ t
for (1=n; 17=ps;1--)
    9,[1]=9,[1-1]
    a [pos-1] = x;
  for [i=0; 120; i++)
     print (14. d", 9, (1));
  for ( =1; ich , i++)
      print ("y.d", az(i));
getouro.
```