Printf ("Enter position of dimention:");

Scanf ("1.8", bx);

Scanf ("1.8", bx);

Scanf ("Position of deletion:");

Scanf ("Y.d", 8k);

delle (Y);

Print (x)

return;

```
consider the new linker list by menging attends rode of two Ulk for
chample in lit 1 {1,2,3} & list of 4,5,6} in new list 21,4,2,5,3,6},
#include & stolio. h>
# include a stalib. h>
Struck Node ?
  int data:
  Struct Mode next;
void print_list (struct node + head)
   printf (" Y.d", (ptr-yolata),
    ptr=ptr -- menty
    brint & ("MULL (");
 3
      push (struct node "head j'int data)
 f
   struct node new = struct node + malloc (site of-(struct node));
    New -> date = doctor,
     hew -rest = theod;
     & Thead = new,
Struct noch *merge (struck noch *a, struck noch *b).
  struct Node temp,
  struct Noch + tails & timps
   temp. Next = NULL;
  while (i) f
     if (a = = NULL)
      tail - next = b;
       breat;
     ele if (b= NULL)
      bail - Mxt = a -1
      breaki
      J
```

```
else;
      tail -> next = a;
       tail = a;
        a=a -+ next;
        tail -> nixe = b;
3 return fall nexty
3
 word mount)
   int 1ceysl 7 = {1,2,3,4,5,6, a}
    int n= size of (keys) /size of key (a)
    Struct Mode a= NULL; "b = NULL;
    foli=n=,1>0; i=i-0
    push (&a, (ay (li]),
    for limn-2; i == 0; i=i-2,
     push(8b, luy[i]);
   Struct wood Thead = muge (a, b),
    printlist (nead);
```

```
Find all the elements in stack whose sum is equal to klx from way
#include < statio. h>
int top: -1;
int x;
 char stack [100];
 void push(int w);
 chai pop();
 int moder )
 int 1, n, a, t, k, f, sum = 0, count = 1;
 Printf("Enter the number of elements in stack"),
 scanf (" 1.0", &n),
 fo (i=0; icn; i++) {
  Prints ("Enter next elimint")
  Scanflur.do, ba);
  push(a);
  Ч
  printf ("Enter the sum to be chocked"),
  scanf (" r.d" (66);
  foci=0;icn;i++){
   t=pop();
   Sum+=ti
    count + = //
   if (sum = = K) {
    for (int j = 0; j count ; j++)
     Printf (" / d", stack[j]);
     f=1,
     break;
     4
    push(E);
   if (41:1)
   printf(" Elements in stack donk add up to sum");
void publist a)
```

```
Printf(" \n Stack is full \n');
 return
  top = top +1;
   Stack [top] = n;
بخ
 char popl)
 if(stack [top]==-D
    Printf (" In Empty Stack(n");
     retuno;
x = Stack[top];
top=top-1,
return,
```

```
larite a program to print the element in a quelue
#include < stalio. k>
                                        i suverse das
# dofine size 10
                                        in alternate order
void insert (int);
void deletics;
int anne [10], f=-1, r=-1
 hold main ()
 2
 int value, choice;
 while(1)
   printf ("Immenuin"),
   printif (" 1. Insection in 2. Deletion in 3. Reverse in 4. Alternate").
   Printp (" in Enter cholu!"),
   Scant (" V. d", B choice);
   Switch choice).
    3
    case 1: printf("Enter value to insert: "),
              scand (" y, d", svalue);
               insert (value);
               break;
     case 9: delete ();
               Doeak;
      case 3! printif (" Revense quem!");
                 for (i=5176; i7=0; i--)
                 { ; f(quuli] ==0
                    continue
                     print / " . d', amm [i]);
                  break,
    Case 41 printif ("Alternate doments of gruene, 1);
               for (1=0;1<512€;1+=2)
                 if (gume[i] = =0)
                 continues
               2 Prints (" v.d sucudi);
                brak,
```

```
case 5: exit (D);
     default: printif (" in wirong of election! Try again!");
world insert (int value) {
 if (If = =0880= =212E -1) | 1 f = = r+1)
. Print ("In que is full");
 else E
  1f (f = = -1)
   f = 0,
    r=(r+1) 1/ SIZE)
    Queur[r]= value;
    Printf("In Insertion Success!");
33
void delta ()
if (f = = -D)
 Printf (" in Queue is ampty");
 else
 Epanté (" In Delde: y.d", queus[f]),
    f = (f+1) y, size,
   of=r=-1,
```

(5)

In How away is different from the Unleed List? the majo difference blu pricy and Linked list regul to their structure. Arrays one Index based data struct where each element associated with an index, on the other hand, unled list acties on reference to previous and next element.

,11, #Include < stdio. h> # Include < stdib.h Struct Nocle int data; Struct nocle 4 rext; 9; void push (struct wode \*\* head ref, int new data)

struct node " new -node = (struct-node +) malloc (size of Struct no

new-node - data = new - data, new\_node\_rnext=(\*head\_ref.); is head-ref = new-hody

void printlist (struct node " head) Struct node "temp = head; while (temp! = NULL) & print of (" y. d", timp ->data), temp = temp -rnext; Print (" \n"),