```
G. Kvishna vamsi
                                         AP19110010356
    # include estdio. h>
                                           CSA-H.
1(:)
     # include LStdlib.>
     Struct Johny &
      3 * Pi
     3+ruct Node &
        int data:
        struct Node next;
       4;
       struct Node + head;
       ( ) third bion
         34ruct Mode temp = heads
        while (temp! = NULL)
         print["+d", temp->data);
         temb = temb-> nent .
        briutt ("10");
         void inseard (int date, intn)
         Struct Node temp1: (struct Node) malloc (size of (struct Node));
         temp 1 -> dada = data;
         temp 1 -> Next = Nutil;
         if (n = =1)
          temp1-)nent=heads
           head : templ;
```

neturn;

```
Struct Node + demp2 = head;
for (:=0; i <n-2; i++)
 temp 2 = temp2 - rnexts
  temp 1-> next = temp 2-> next;
  temp 1-> nent etemp 2-> nent;
  temb -> went = temb 1,
  int main ()
   head = Nulli
   i(1,6)1-49209
   inser-1 (3,2)j
   Prosent (4,1);
    insert (5,2);
    printlli
     io never
out put :-
4'523
         program finished with exit code o
 Press ENTER to exit console:
```

(11:1) 11 Linked 1:24: Delete a node at 1th position. #include Ls. Hinclude # include 25-18186.42 Struct Nodes "not dato" struct Node*next; 30, struct Node head; void insert (int data): Il insert and integer at the end of list void print() ill print all elements in the 1824. void Delete (int n); Delete node at position n. int main () head = Null 311 list is figured empty insent (2);

insent(u); [(3) FIE 920: ? nsest (s) 11 List & 4 6 5 printf ("Enter a position"); scant ("1.d", 20); Delete (n); print() REDMI NOTE 7 AI DUAL CAMERA

Struct Mode + tempobet head; while (tempobed ! = Null) pr8n+8("+d", dempober-> dada); tempobet = tempobet -> next;

temb -> vex+ = yak. Struct Mode + temp 2 = head; while (1) of Hemps-InchA = = NULL temps -> nen-1= kemp; break; temp = temp 2 +> next; () Mira biou

```
void Delete (m)
 3-toch Node+ Aempl = head?
   head: lempt -> next 1/1 head potents to geround whole,
 31 (0==1) 5
   free (temp1)3
    greturo 1
  4001(:-0; ?20-2; ?44)
   temp1 = temp1 - > nent of
   11 temp1 points to (n-1) th node.
   Struct Node + temps = temp1 - rnen - 1 11 nth node.
    demp1-rnex4=demp2-rnex+;11(n+1)+h node.
    1,66 (46wb5);
 world Prosent (Prita)
   struct Node temp. (struck Noder) Mallac (size of Cohoco
REDMINOTE Ja-1a = n3
    AL CAMERA = NULL)
```

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Jemp -> vext = var.
Struct Modet temp 2 = head;
 while (1)
  ¿ of Hemps-InenA = = Mull)
     temp2 -> nen-1= = kemp"
      breaki
      temp= temp2->nent;
     3 void bring ()
```

struct mode dem pobet: head; while (tempobet!= Mull)

print f("1.d", dem pabet -> dada);

tempobet = dem pabet -> next;

3

```
#include 201dio.h)
# include LS+d1:b.h>
 Struct Node
   int data;
   struct Node *nent;
  void push (struct Node ++ head_ nef, int new_doda)
  3
   struct Nod* New-node =
             (struct Node*) malloc (size of (struct Node));
    new-node->data = New-data;
     new-node - rnext = (* head - nef):
      ( thead _ net) = New - node;
    29
     void printlist (struct Node + head)
    $
     Struct Node "temp = head;
     mpile (temp 1 = MOLL)
      prin-1-1 ("1.d", temp->dada):
      temp = temp -> next;
      4
      prints ("1/n");
     void merge (struct Node *p, struct Node *xa)
      Struct Node + p_ curr=p, +q_curr=tq;
      Struct Node & p - nemt, & q - nemt ?
      while (p-curi! : Null & & q - curr 1 : Null)
       P-Men-1=P-Curr->nen+;
      q- nent = q - curr - > nent i
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9-curr->nen+=p-nen+3
                       P-curr->nem+= Q-curri
                                                                                                                                                                                           output:-
                              p-curr = p-nex+ 3
                                                                                                                                                                                           modified tinst rinked rist:
                                9-curr=9-nen+3
                                                                                                                                                                                                142536
                                                                                                                                                                                                   Modified secound linked list:
                 49 = 9 - curr;
                                                                                                                                     78-.
ind main ()
       struct Mode p = Null, # 9 = Null;
                                                                                                         All the state of t
           Push (2p,3);
           push (2 p. 2);
               push (ep. 1);
              print f ("First linked 1864 : 10");
               Prind List (P);
        push (29,8);
                                                                                                                                                                     Contracto de la Constitución de 
         Push ( 29, 7);
           push (29,6);
             push ( & 2 , 5);
               puh(129, 14);
               printf("second linked list: \n");
          printList (P):
     printf ("modified First linked list :15");
         Prind List (P):
         prints ("modified secound linked list; 10");
          print (istle);
                                                                                                                                                   the second of the fact of the second
           getcharl);
              neturn o;
```

```
#include LStdio.h>
 :1- = 90+ tos
 extoi
 char stack [100];
  ilx trishaug biou
  char pop();
  int main()
   inti, n, a, t, K, f, sum = 0, count=1;
   print of lucater the number of a elements in the stack");
   Jeanf ("-1.d", 2n);
    foa (i=0; i20; i+ +) }
    printf ("Ender new + element");
     Scanf ("1.d", 2a);
     push (a);
     print ("Enter the sum . to be checked");
    Scanf ("-1.d", & K);
     foo((1:0:120;144)
      18 t= POP (1;
       Sum+=t;
        count += 1;
       Pf Sum = = k) {
      fool(in-1 :)=0 1 i2 count; i++)
       pren4f ("1.d") Hack (:);
      f=13
       breaki
      g push (t);
```

ic

4

```
push (t);
it (61=1)
printf("The elements in the stack done add up to the sum") ?
4
void push (801 K)
it (40b== 33)
 print ("Instact is EULL!!!]n");
 Defurn;
 -10P=10P+1;
  S-lack [40P]=x3
  chan pop()
  :f (etack [top] == -1)
  prin+f("102+ack is Empty !!! /n");
   neturn o;
   3
    x=Stack[top];
   top=+0p-13
    oreturn x;
    i tuqtuo
   Enter the number of elements in the stack!
   Enter nont element 1
    fortex the sum to be checked.
```

```
u(°)
   11 Function to sieverse the queue.
   void neversequeve (queuezin+> & queue)
    3
    Stack Lint> stack;
    while (! queue. empty()) &
      Stack. push (queue. front());
       Queue: pop();
     while (1.8+ack, empty (1) }
          Queue push (stack. top (1);
          stack. pop();
    3
     chaltero
               QUEUE
     output;
               stack.
        8
```

```
u(ii)
   used neverse queue first k élements (int k, queue cint) & queue)
      if (Queue.empty()==true l(k > Queue. 3ize())
         neturn;
       it ( k ( = 0)
         neturn;
       Stack (int) stack;
      / + push the first k elements into a stackt)
      Yor (int i=0; i < K; i++) &
        Stack. push (Queue. front ());
        Queuc. pop();
       while (!stack.emp-14()) &
         Queue. push (stack . top ());
          Stack pop();
        4
        foa (inti:0) il queuc. 8ize()-kji++)f
         Queue pup (Queue. ());
         Queue. pop Ui
       output:
```