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Assignment -3
. Write a function "insert - any ()" for inserting a not
at any given position of the linked list. Assume
 position starti at 0.
sypedel Struct node
        int data;
         Struct mode + link;
       void insert_any();
        void display ();
        Void main ()
         Port choice;
          int cont = 1;
         header = ( street node * malloc ( size of ( sode));
         chiscri);
         header -> data = NULL;
        header -> link = NULL;
        while (cont = = 1)
          print("In Insert at any position in");
          print ("In a. Display linked list In");
         Printf (" In Enter your choice:");
          scard ("Hd", schoice);
           Switch (choice) {
              case 1: insert - any ();
                      break :
               case 2: display ();
             break;
```

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Printf (" In In Do you want to continue ? (1/0): ")
scarf ("1./.d", 8 cont);
  getch ():
world insert-anyl)
   Pot data-value, key?
  Printf (" In Enter data of the node: ");
  Scanf (" +d", & data-value);
  Pf ("In Enter data of the node after which new node is to
                       be inserted: "):
  sf (" y.d", & key);
  temp= (struct node *) malloc (size of (node)):
   ptr = header;
   while (ptr -) link! = NULL 28 ptr -> data != key)
    of (ptr → data == key)
       temp - data = data - value;
       temp - link = ptr -> link;
        pt -> 19 nk = temp;
      clse
         Pf ("In value . 1.d not found (n", key);
 void display 1)
    of ("In contents of the linked Bit are: 10");
      Ph = header;
      while (pto -) link (= NULL)
          Pto = pto - link; date);
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2. Write a function "delete-beg!)" for deleting and
from the beginning of the linked lect.
typedel struct node
       int data
      Struct node * links
     nodestr;
     Void delete-beg();
    Void main ()
         int eboix
          header = (node *Xmalloc (size of (node));
           Chrscr119
           headers data = NULL;
             header > link=Null;
           If ( header - link == NULL)
              Pf ("In Empty Linked 1ist. Deletion not possible
            else
               Ptr = head -> 1? nkgr
                head - link = ptr - link;
                free (ptr);
                Pf ( 'In Node deleted from begin");
       vord display 1)
         deftin linked list is: (n");
            PH = head;
           while ( Ptr->link!=NULL)
            ptr=ptr-link;
             Pf ("/.d", Ptr -> data);
```

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3. Write a function" delete_end()" for deleting a node from
 the end of the 19 nked list
  typeded struct rode
      int data
       struct node & link;
    node, Ptr, Ptr1;
    vold delete - endl);
     void main ()
     nead = (node *) (malloc(size of (node));
      head -> data = NULL;
      head - link = NULL;
      if ( head → IPAL == NULL)
      Pf ("In Empty linked 18st. Deletion not possible. In");
      4
        else
             ptr=head;
             while ( ptr -) link 1 = NULL)
                 Pto1 = Ptos
                 Pti=ptr->link;
               Ptr1→link = ptr→link;
               free (ph);
              Pf (" In mode deleted from the end. In");
```