/*Write separate user defined functions to perform the following operations on a single linked list: (i) Delete from E d (ii) Delete after a specific value (iii) Delete a specific data value (iv) Delete a node before a value */

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#include <stdio.h>
#include <stdlib.h>
#include <malloc.h>
struct node
  int data;
  struct node *next;
} * start, *current, *newnode;
void deleteend();
void deleteafter();
void deletespecific();
void deletenodebefore();
void main()
  int x;
  newnode = (struct node *)malloc(sizeof(struct node));
  printf("Enter the value of x");
  scanf("%d", &x);
  newnode->data = x;
  newnode->next = start;
  start = newnode;
}
void deleteend()
  struct node *p,*q;
  p=start;
  while(p->next!=current)
     p=p->next;
  q=p->next;
  p->next=NULL;
  current=p;
  free(q);
}
void deleteafter()
  struct node *p,*q;
  int ele;
  printf("Enter the specific element");
  scanf("%d", &ele);
  while(p->data!=ele)
     p=p->next;
```

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q=p->next;
  p->next=q->next;
  free(q);
void deletespecific()
  struct node *p,*q;
  int ele;
  printf("Enter the specific element");
  scanf("%d", &ele);
  while(p->next->data!=ele)
     p=p->next;
  q=p->next;
  p->next=q->next;
  free(q);
void deletenodebefore()
  struct node *p,*q;
  int ele;
  printf("Enter the specific element");
  scanf("%d", &ele);
  while(p->next->next->data!=ele)
     p=p->next;
  q=p->next;
  p->next=q->next;
  free(q);
```