/*Write separate user defined functions for the following Delete operations in a double linked list (i) Delete from En
(ii) Delete after a specific value (iii) Delete before a specific value (iv) Delete a specific value */

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#include <stdio.h>
#include <stdlib.h>
#include <malloc.h>

struct node
{
   int data;
   struct node *next, *prev;
} * start, *newnode, *current;

void deleteend();
void deleteafterspecific();
void deletebeforespecific();
void deletespecific();
main()
{
   int x, ch;
   printf("Enter the data of the 1st node");
   scanf("%d", &x);
   newnode = (struct node *)malloc(sizeof(struct node));
   newnode->data = x;
   newnode->prev = NULL;
   newnode->next = NULL;
   start = newnode;
   current = newnode;
}

void deleteend()
{
   struct node *p;
   p = current;
   curent = current->prev;
   free(p);
   current->next = NULL;
}

void deleteafterspecific()
{
   struct node *p, *q, *r;
   p = start;
   int ele;
   printf("Enter the specific element");
   scanf("%d", &ele);
   while(p->data!=ele)
   {
      p=p->next;
   }
   q=p->next;
   r=q->next;
```

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    p->next=r;
    r->prev=p;
    free(q);
}

void deletebeforespecific()
{
    struct node *p,*q,*r;
    p=start;
    int ele;
    printf("Enter the specific element");
    scanf("%d", &ele);
    while(p->data!=ele)
    {
        p=p->next;
    }
    q=p->prev;
    r=q->prev;
    r->next=p;
    p->prev=r;
    free(q);
}

void deletespecific()
{
    int ele;
    printf("Enter the element to be deleted");
    scanf("%d",&ele);
    struct node *p,*q,*r;
    p=start;
    while(p->data!=ele)
    {
        p=p->next;
    }
    q=p->next;
    r=p->prev;
    r->next=q;
    q->prev=r;
    free(p);
}
```