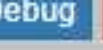
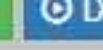


main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 struct Node{
5     int data;
6     struct Node* next;
7 };
8
9 struct Node* linkedListTraversal(struct Node*ptr)
10 {
11     while(ptr!=NULL)
12     {
13         printf("%d\t",ptr->data);
14         ptr=ptr->next;
15     }
16 }
17
18 struct Node* deleteFirst(struct Node*head)
19 {
20     struct Node* ptr=head;
21     head=head->next;
22     free(ptr);
23     return head;
24 }
25
26 struct Node* deleteAtIndex(struct Node*head,int index){
27     struct Node*p=head;
28     int i=0;
29     while(i<index-1)
30     {
31         p=p->next;
32         i++;
33     }
34     struct Node*q=p->next;
35     p->next=q->next;
36     free(q);
37     return head;
38 }
39
40 struct Node* deleteLast(struct Node*head)
41 {
42     struct Node*p=head;;
43     struct Node*q=head->next;
44     while(q->next!=NULL)
45     {
46         p=p->next;
47         q=q->next;
48     }
```



Language C



main.c

```
48     }
49     free(q);
50     p->next=NULL;
51     return head;
52 }
53
54
55 void main()
56 {
57     struct Node*head;
58     struct Node*first;
59     struct Node*second;
60     struct Node*third;
61     struct Node*fourth;
62
63     head=(struct Node*)malloc(sizeof(struct Node));
64     first=(struct Node*)malloc(sizeof(struct Node));
65     second=(struct Node*)malloc(sizeof(struct Node));
66     third=(struct Node*)malloc(sizeof(struct Node));
67     fourth=(struct Node*)malloc(sizeof(struct Node));
68
69     head->data=100;
70     head->next=first;
71
72     first->data=99;
73     first->next=second;
74
75     second->data=98;
76     second->next=third;
77
78     third->data=97;
79     third->next=fourth;
80
81     fourth->data=96;
82     fourth->next=NULL;
83
84     printf("Original linked list:\n");
85     linkedListTraversal(head);
86
87     printf("\nAfter deleting first element\n");
88     head=deleteFirst(head);
89     linkedListTraversal(head);
90
91     printf("\nAfter deleting third element\n");
92     head=deleteAtIndex(head,2);
93     linkedListTraversal(head);
94
95     printf("\nAfter deleting last element\n");
```



main.c

```
95     printf("\nAfter deleting last element\n");
96     head=deletelast(head);
97     linkedlistTraversal(head);
98 }
99
```



input

```
Original linked list:
100  99  98  97  96
After deleting first element
99  98  97  96
After deleting third element
99  98  96
After deleting last element
99  98
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```