

Explorer

DoubleLL7.c x DelAtPos... x

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Debugger

```
1  struct·node·{
2      int·data;
3      struct·node·*prev;
4      struct·node·*next;
5  };
6  typedef·struct·node·*·NODE;
7
8  NODE·createNodeInDLL()·{
9      NODE·temp;
10     temp·=·(NODE)malloc(sizeof(struct·node));
11     temp->prev·=·NULL;
12     temp->next·=·NULL;
13     return·temp;
14 }
15
16 void·traverseListInDLL(NODE·first)·{
17     NODE·lastNode·=·first;
18     while·(lastNode·!=·NULL)·{
19         printf("%d<-->·",·lastNode->data);
20         lastNode·=·lastNode->next;
21     }
22     printf("NULL\n");
23 }
24
25 NODE·insertAtEndInDLL(NODE·first,·int·x)·
26 {
27     NODE·temp2·=·createNodeInDLL();
28     temp2->data·=·x;
29
30     if(first·==·NULL)
31     {
32         return·temp2;
33     }
34
35     NODE·temp·=·first;
36
37     while(·temp->next·!=·NULL·)
38     {
39         temp·=·temp->next;
40     }
41
42     temp->next·=·temp2;
43     temp2->prev·=·temp;
44 }
```

< Prev

Reset

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Next >

```
45         return first;
46
47
48     }
49
50     NODE deleteAtPositionInDLL(NODE first, int position)
51     {
52         if(position <= 0)
53         {
54             printf("No such position in DLL so deletion is not
55 possible\n");
56             return first;
57         }
58
59         if(position == 1)
60         {
61             if(first->next == NULL)
62             {
63                 printf("The deleted element from DLL : %d\n", first-
64 >data);
65                 return NULL;
66             }
67
68             int x = first->data;
69             first = first->next;
70             first->prev = NULL;
71             printf("The deleted element from DLL : %d\n", x);
72
73             return first;
74
75         }
76
77
78         NODE temp = first;
79
80         NODE temp_prev;
81
82         for(int i = 1; i < (position); i++)
83         {
84             if(temp == NULL)
85             {
86                 printf("No such position in DLL so deletion is not
87 possible\n");
88                 return first;
89             }
90         }
```

```
91     temp=temp->next;
92 }
93
94 if(temp==NULL)
95 {
96     printf("No such position in DLL so deletion is not
97 possible\n");
98     return first;
99 }
100
101 else if(temp->next==NULL)
102 {
103     printf("The deleted element from DLL : %d\n",temp->data
104 );
105     temp_prev->next=NULL;
106     return first;
107 }
108 else
109 {
110     printf("The deleted element from DLL : %d\n",temp->data
111 );
112     temp_prev->next=temp->next;
113     temp_prev->next->prev=temp_prev; //temp->prev
114     return first;
115 }
116
117
118 }
119
120
```

 Terminal  Test cases