

Explorer

DoubleLL4.c x InsAtPosi... 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 NODE insertAtPositionInDLL(NODE first, int position, int x) {
17     {
18         if (position <= 0 || (position > 1 && first == NULL))
19         {
20             printf("No such position in DLL so insertion is not\n");
21             return first;
22         }
23         NODE temp = first;
24
25         for (int i = 1; i < (position - 1); i++)
26         {
27             if (temp->next == NULL)
28             {
29                 printf("No such position in DLL so insertion is not\n");
30                 return first;
31             }
32             temp = temp->next;
33         }
34
35         NODE temp2 = createNodeInDLL();
36         temp2->data = x;
37
38         if (position == 1)
39         {
40             if (first != NULL)
41             {
```

< Prev

Reset

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Next >

```
45         first->prev == temp2;
46
47     }
48
49     first = temp2;
50 }
51 else
52 {
53     temp2->next = temp->next;
54     temp2->prev = temp;
55     if (temp->next != NULL)
56     {
57         temp2->next->prev = temp2;
58     }
59     temp->next = temp2;
60 }
61
62 return first;
63 }
64
65 void traverseListInDLL(NODE first) {
66     NODE lastNode = first;
67     while (lastNode != NULL) {
68         printf("%d<--> ", lastNode->data);
69         lastNode = lastNode->next;
70     }
71     printf("NULL\n");
72 }
73 }
```



Terminal



Test cases