

SU92-BSSEM-S24-037

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LAB – 8

## OUTPUT

```
Before inserting in the middle:
Doubly Linked List: 10 <--> 20 <--> 30 <--> 50 <--> 70
Reversed Doubly Linked List: 70 <--> 50 <--> 30 <--> 20 <--> 10

After inserting in the middle:
Doubly Linked List: 10 <--> 20 <--> 30 <--> 40 <--> 50 <--> 70
Reversed Doubly Linked List: 70 <--> 50 <--> 40 <--> 30 <--> 20 <--> 10

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Process exited after 0.2675 seconds with return value 0
Press any key to continue . . . |
```

## Explanation

This program creates a Doubly Linked List where each node has two pointers: one to the next node and one to the previous. It allows inserting nodes at the start, end, middle, or any specific position. After insertion, the list is displayed in both forward and reverse orders. This structure allows easy traversal in both directions.