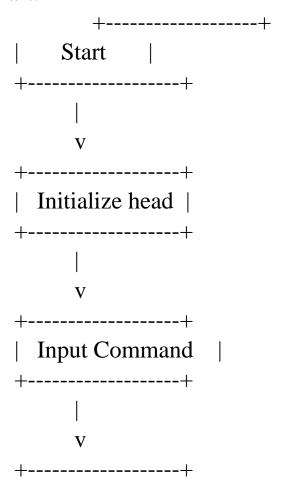❖ Duplicates Remove:
- ▪ Explanation:
  The program implements a doubly linked list with operations to insert nodes, reverse the list, and traverse it. It allows users to input integers for insertion, reverses the list by swapping the `next` and `prev` pointers of each node, and displays the list before and after reversal. The reversal operation is performed in place, ensuring efficient memory usage while maintaining the integrity of the list structure.
- ▪ Time Complexity and Space Complexity:
  - o O(N)   O(1)
- ▪ Flowchart:

```
        +------------------+
        |     Start        |
        +------------------+
                |
                v
        +------------------+
        |  Initialize head |
        +------------------+
                |
                v
        +------------------+
        |  Input Command   |
        +------------------+
                |
                v
        +------------------+
```

```
                    |  Is Command "insert"?   |
              +------------------+
                     |
           +-------------+-------------+
           |                         |
         Yes                       No
           |                         |
           v                         |
    +------------------+             |
    | Input value to   |             |
    | insert           |             |
    +------------------+             |
           |                         |
           v                         |
    +------------------+             |
    | Call insert(value)|            |
    +------------------+             |
           |                         |
           v                         |
    +------------------+             |
    |  Is Command "reverse"?  |     |
    +------------------+             |
                 |                   |
           +-------------+-------------+
           |                         |
         Yes                       No
           |                         |
           v                         |
    +------------------+             |
    | Call reverse()   |             |
    +------------------+             |
```

```
         |                    |
         v                    |
+------------------+          |
|  Is Command "traverse"?  |  |
+------------------+          |
            |           |
    +-------------+-------------+
    |                  |
   Yes                No
    |                  |
    v                  |
+------------------+          |
| Call traverse()  |          |
+------------------+          |
    |                  |
    v                  |
+------------------+          |
|   End            |          |
+------------------+          |
```