```java
package p1;

public class LinkedList {

    Node head;

    class Node{
        int data;
        Node next;


        Node(int data){

            this.data = data;
            next = null;
        }
    }

        void printMiddleElement() {

            Node fst_ptr = head;
            Node slw_ptr = head;

            while(fst_ptr!=null && fst_ptr.next!= null) {

                fst_ptr = fst_ptr.next.next; // 2 steps
                slw_ptr = slw_ptr.next;
            }

            System.out.println("Middle Element value is:"+ slw_ptr.data);
        }

        void insertAtHead(int data) {   //for inserting the elements at the head of the linked list
            Node new_node = new Node(data); // creating a node and assigning the value to the node

            new_node.next = head; // assign next point to the previous linked list
            head = new_node;    // head next should point to the new_node
            // head will now point to the new_node

        }

        void printElements() {  //for print the elements of the linked list
            Node tptr = head;

            while(tptr!= null) {
                System.out.print(tptr.data +" -> ");
                tptr = tptr.next;
            }

            System.out.println("NULL"); // for new line only
        }


    public static void main(String[] args) {

```

```
56          LinkedList llist = new LinkedList();
57
58          for(int i = 5; i>0 ; --i) {
59
60              llist.insertAtHead(i);
61              llist.printElements();
62              llist.printMiddleElement();
63          }
64
65      }
66
67  }
68
```