```
package linkedlist;
// Java program to find middle of linked list
class LinkedList44
    Node head; // head of linked list
    /* Linked list node */
    class Node
        int data;
        Node next;
        Node (int d)
        {
            data = d;
            next = null;
        }
    }
    /* Function to print middle of linked list */
    void printMiddle()
        Node slow ptr = head;
        Node fast_ptr = head;
        if (head != null)
            while (fast ptr != null && fast ptr.next != null)
                fast ptr = fast ptr.next.next;
                slow_ptr = slow_ptr.next;
            System.out.println("The middle element is [" +
                    slow ptr.data + "] \n");
        }
    }
    /* Inserts a new Node at front of the list. */
    public void push(int new data)
    {
        /* 1 & 2: Allocate the Node &
                Put in the data*/
        Node new node = new Node (new data);
        /* 3. Make next of new Node as head */
        new node.next = head;
        /* 4. Move the head to point to new Node */
        head = new node;
    }
    /* This function prints contents of linked list
    starting from the given node */
    public void printList()
    {
        Node tnode = head;
        while (tnode != null)
            System.out.print(tnode.data+"->");
            tnode = tnode.next;
        System.out.println("NULL");
    }
    public static void main(String [] args)
    {
        LinkedList44 llist = new LinkedList44();
```