**Assignment no. 2**

**Data Structures and Algorithms Lab**

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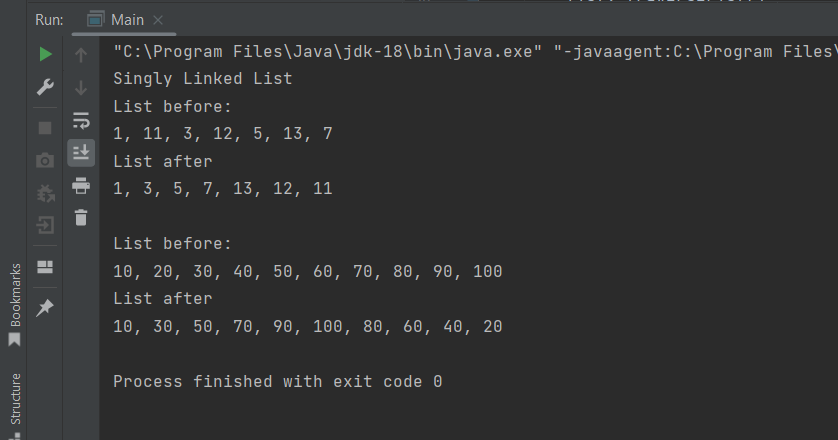
Rearrange a given linked list such that every even node will be moved to the end of the list in reverse order.

**Method Code:**

public void arrangeOrder() {  
 Node oddNode = head;  
 Node move;  
 SingleLinkedList evenList = new SingleLinkedList();  
  
 while (oddNode.next != null) {  
 move = oddNode.next;  
 if (oddNode.next == tail) {  
 tail = oddNode;  
 tail.next = null;  
 } else {  
 oddNode.next = oddNode.next.next;  
 oddNode = oddNode.next;  
 }  
  
 evenList.insertAtHead(move);  
 }  
  
 tail.next = evenList.head;  
 tail = evenList.tail;  
}

public void insertNodeAtHead(Node n) {  
 if (head == null) {  
 tail = n;  
 }  
 n.next = head;  
 head = n;  
}

**Output**

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