

```

package linkedlist;

// Java program to get intersection point of two linked list

class LinkedList3 {

    static Node head1, head2;

    static class Node {

        int data;
        Node next;

        Node(int d)
        {
            data = d;
            next = null;
        }
    }

    /*function to get the intersection point of two linked
    lists head1 and head2 */
    int getNode()
    {
        int c1 = getCount(head1);
        int c2 = getCount(head2);
        int d;

        if (c1 > c2) {
            d = c1 - c2;
            return _getIntersectionNode(d, head1, head2);
        }
        else {
            d = c2 - c1;
            return _getIntersectionNode(d, head2, head1);
        }
    }

    /* function to get the intersection point of two linked
    lists head1 and head2 where head1 has d more nodes than
    head2 */
    int _getIntersectionNode(int d, Node node1, Node node2)
    {
        int i;
        Node current1 = node1;
        Node current2 = node2;
        for (i = 0; i < d; i++) {
            if (current1 == null) {
                return -1;
            }
            current1 = current1.next;
        }
        while (current1 != null && current2 != null) {
            if (current1.data == current2.data) {
                return current1.data;
            }
            current1 = current1.next;
            current2 = current2.next;
        }

        return -1;
    }

    /*Takes head pointer of the linked list and
    returns the count of nodes in the list */
    int getCount(Node node)

```

```
{
    Node current = node;
    int count = 0;

    while (current != null) {
        count++;
        current = current.next;
    }

    return count;
}

public static void main(String[] args)
{
    LinkedList3 list = new LinkedList3();

    // creating first linked list
    list.head1 = new Node(3);
    list.head1.next = new Node(6);
    list.head1.next.next = new Node(9);
    list.head1.next.next.next = new Node(15);
    list.head1.next.next.next.next = new Node(30);

    // creating second linked list
    list.head2 = new Node(10);
    list.head2.next = new Node(15);
    list.head2.next.next = new Node(30);

    System.out.println("The node of intersection is " + list.getNode());
}

// This code has been contributed by Mayank Jaiswal
```