

Linked List

Exercise

```
import java.util.List;
import java.util.LinkedList;
import java.util.Iterator;

class Tester {

    public static List<Object> concatenateLists(List<Object> listOne, List<Object> listTwo) {
        // Iterate over listTwo in reverse order and add elements to listOne
        Iterator<Object> descendingIterator = ((LinkedList<Object>) listTwo).descendingIterator();
        while (descendingIterator.hasNext()) {
            listOne.add(descendingIterator.next());
        }
        return listOne;
    }

    public static void main(String args[]) {
        List<Object> listOne = new LinkedList<Object>();
        listOne.add("Hello");
        listOne.add(102);
        listOne.add(25);
        listOne.add(38.5);

        List<Object> listTwo = new LinkedList<Object>();
        listTwo.add(150);
        listTwo.add(200);
    }
}
```

```
listTwo.add('A');
```

```
listTwo.add("Welcome");
```

```
List<Object> concatenatedList = concatenateLists(listOne, listTwo);
```

```
System.out.println("Concatenated linked list:");
```

```
for (Object value : concatenatedList) {
```

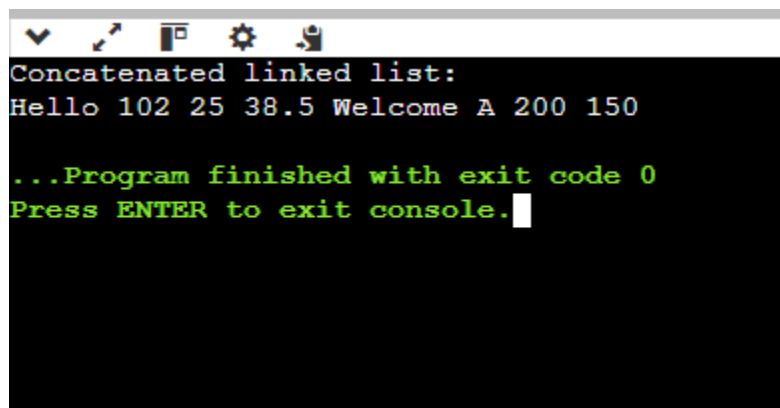
```
    System.out.print(value + " ");
```

```
}
```

```
}
```

```
}
```

Output

A screenshot of a Java IDE's console window. The window has a title bar with standard icons (checkmark, cursor, window, gear, and a person). The console output is as follows:
Concatenated linked list:
Hello 102 25 38.5 Welcome A 200 150

...Program finished with exit code 0
Press ENTER to exit console.
The text is displayed in a monospaced font. The first two lines are in white. The third line is in green. The fourth line is in red. The fifth line is in green. The sixth line is in green. The seventh line is in green. The eighth line is in green. The ninth line is in green. The tenth line is in green. The eleventh line is in green. The twelfth line is in green. The thirteenth line is in green. The fourteenth line is in green. The fifteenth line is in green. The sixteenth line is in green. The seventeenth line is in green. The eighteenth line is in green. The nineteenth line is in green. The twentieth line is in green. The twenty-first line is in green. The twenty-second line is in green. The twenty-third line is in green. The twenty-fourth line is in green. The twenty-fifth line is in green. The twenty-sixth line is in green. The twenty-seventh line is in green. The twenty-eighth line is in green. The twenty-ninth line is in green. The thirtieth line is in green. The thirty-first line is in green. The thirty-second line is in green. The thirty-third line is in green. The thirty-fourth line is in green. The thirty-fifth line is in green. The thirty-sixth line is in green. The thirty-seventh line is in green. The thirty-eighth line is in green. The thirty-ninth line is in green. The fortieth line is in green. The forty-first line is in green. The forty-second line is in green. The forty-third line is in green. The forty-fourth line is in green. The forty-fifth line is in green. The forty-sixth line is in green. The forty-seventh line is in green. The forty-eighth line is in green. The forty-ninth line is in green. The fiftieth line is in green. The fifty-first line is in green. The fifty-second line is in green. The fifty-third line is in green. The fifty-fourth line is in green. The fifty-fifth line is in green. The fifty-sixth line is in green. The fifty-seventh line is in green. The fifty-eighth line is in green. The fifty-ninth line is in green. The sixtieth line is in green. The sixty-first line is in green. The sixty-second line is in green. The sixty-third line is in green. The sixty-fourth line is in green. The sixty-fifth line is in green. The sixty-sixth line is in green. The sixty-seventh line is in green. The sixty-eighth line is in green. The sixty-ninth line is in green. The seventieth line is in green. The seventy-first line is in green. The seventy-second line is in green. The seventy-third line is in green. The seventy-fourth line is in green. The seventy-fifth line is in green. The seventy-sixth line is in green. The seventy-seventh line is in green. The seventy-eighth line is in green. The seventy-ninth line is in green. The eightieth line is in green. The eighty-first line is in green. The eighty-second line is in green. The eighty-third line is in green. The eighty-fourth line is in green. The eighty-fifth line is in green. The eighty-sixth line is in green. The eighty-seventh line is in green. The eighty-eighth line is in green. The eighty-ninth line is in green. The ninetieth line is in green. The ninety-first line is in green. The ninety-second line is in green. The ninety-third line is in green. The ninety-fourth line is in green. The ninety-fifth line is in green. The ninety-sixth line is in green. The ninety-seventh line is in green. The ninety-eighth line is in green. The ninety-ninth line is in green. The hundredth line is in green.