

Linked List

Assignment 2

```
import java.util.HashSet;
```

```
import java.util.LinkedList;
```

```
import java.util.List;
```

```
import java.util.Set;
```

```
class Tester {
```

```
    public static List<Integer> findCommonElements(List<Integer> listOne, List<Integer>  
listTwo) {
```

```
        Set<Integer> set = new HashSet<>(listOne);
```

```
        List<Integer> commonElements = new LinkedList<>();
```

```
        for (Integer num : listTwo) {
```

```
            if (set.contains(num)) {
```

```
                commonElements.add(num);
```

```
            }
```

```
        }
```

```
        return commonElements;
```

```
    }
```

```
    public static void main(String[] args) {
```

```
        List<Integer> listOne = new LinkedList<>();
```

```
        listOne.add(10);
```

```
        listOne.add(12);
```

```
listOne.add(21);
```

```
listOne.add(1);
```

```
listOne.add(53);
```

```
List<Integer> listTwo = new LinkedList<>();
```

```
listTwo.add(11);
```

```
listTwo.add(21);
```

```
listTwo.add(25);
```

```
listTwo.add(53);
```

```
listTwo.add(47);
```

```
List<Integer> commonElements = findCommonElements(listOne, listTwo);
```

```
System.out.println("Common elements:");
```

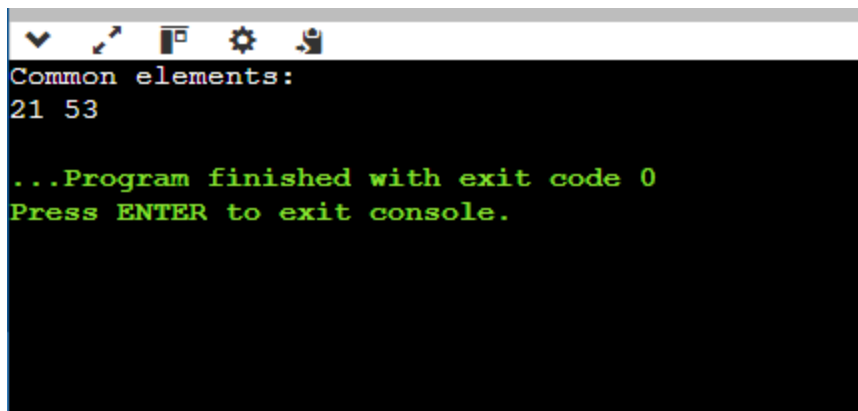
```
for (Integer element : commonElements) {
```

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

```
}
```

```
}
```

```
}
```

A screenshot of a Java IDE's console window. The window has a title bar with standard icons (minimize, maximize, close, run, debug, settings). The console output is as follows:

```
Common elements:
21 53

...Program finished with exit code 0
Press ENTER to exit console.
```