

**Faculty of Artificial Intelligence & Multimedia Gamming**

**Lab # 03**

**Submission Profile**

Name: Ayesha (ARI-F23-0059)

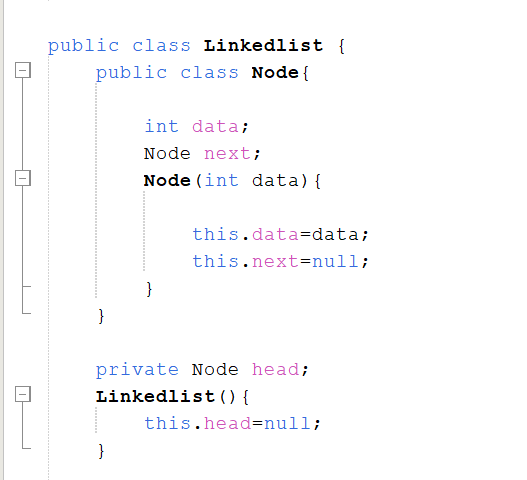
Instructor: Sir Abdul Ghafoor

Course Title : Data Structure and Algorithms

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**Lab Part 01**

**Linked List Class:**

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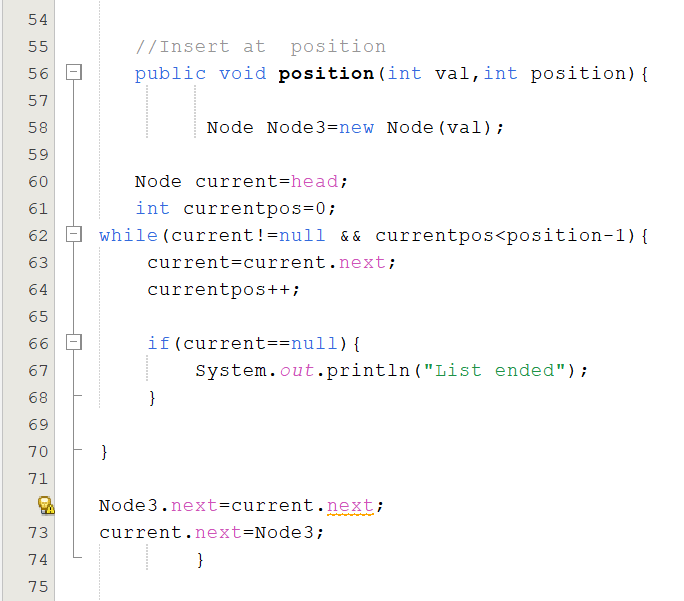
1. **Insertion Operations:**

Insert at Start:

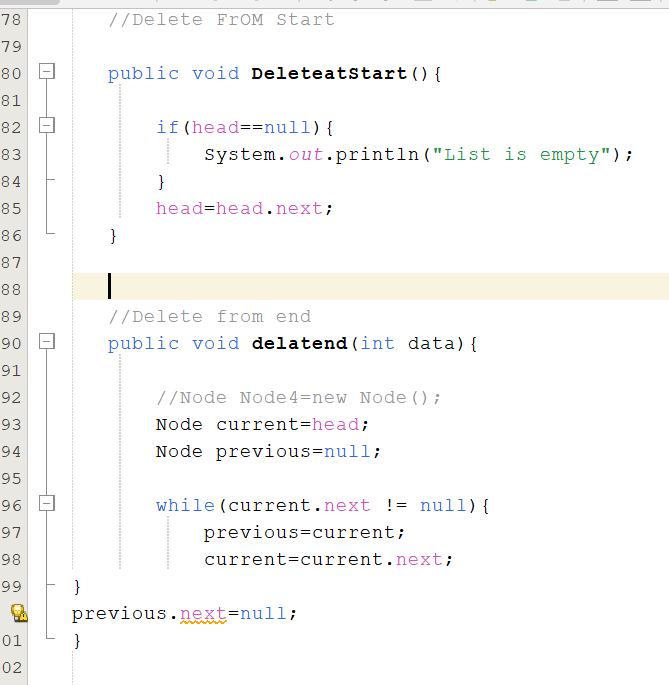
Insert at End:

Insert at Position:

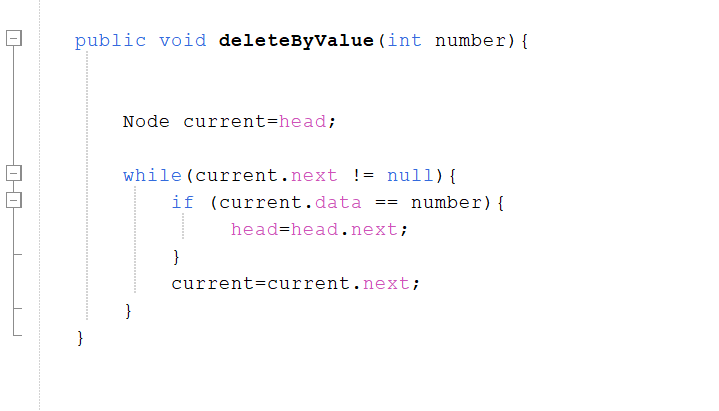




1. **Deletion Operations:**

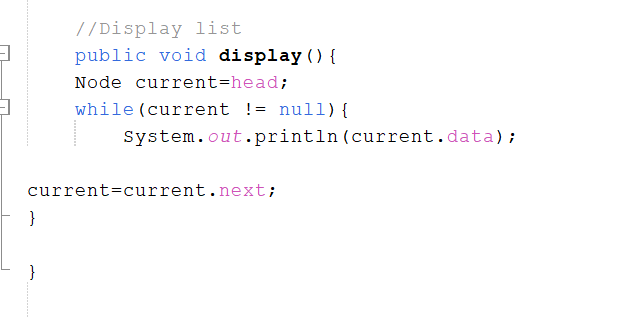
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**Delete by Value:**



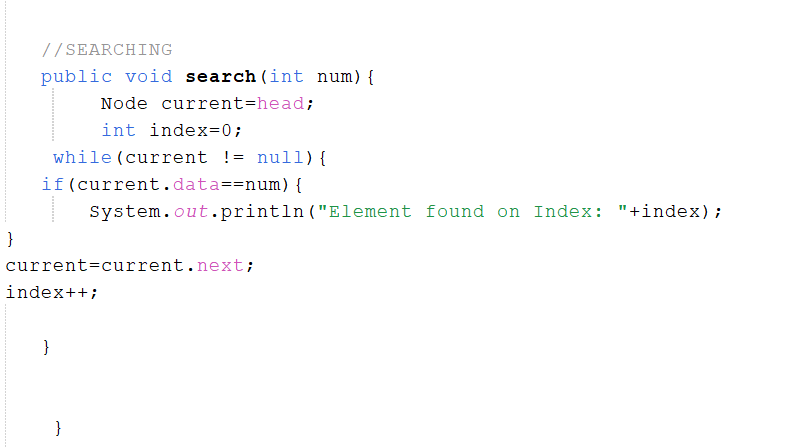
1. **Traversal Operations:**

**Display List:**

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1. **Search Operation:**

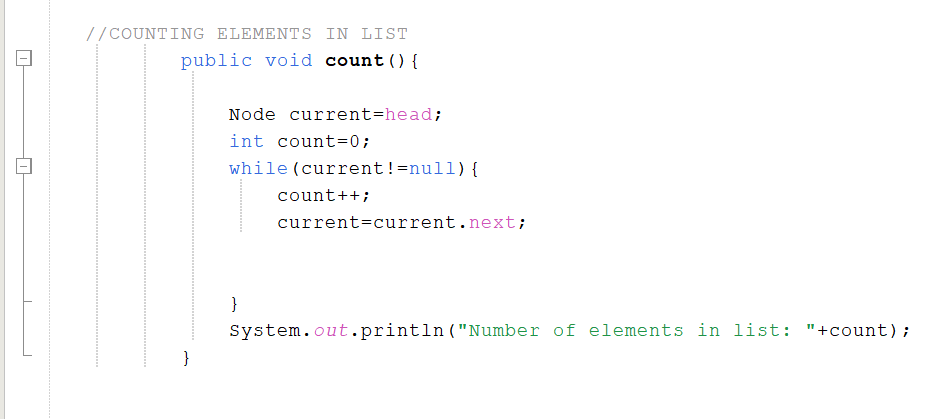
**Search for a Value:**

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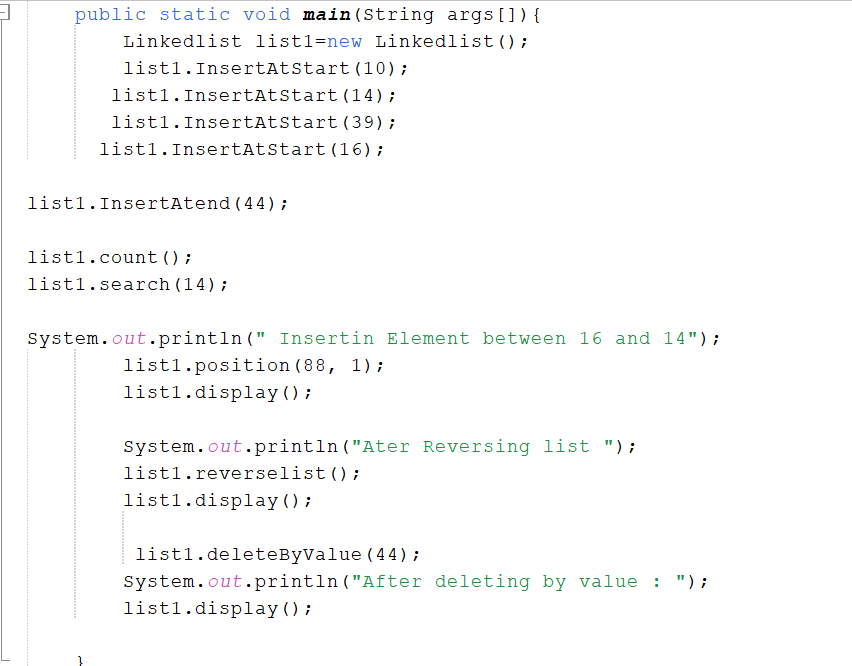
1. **Reverse the List:**

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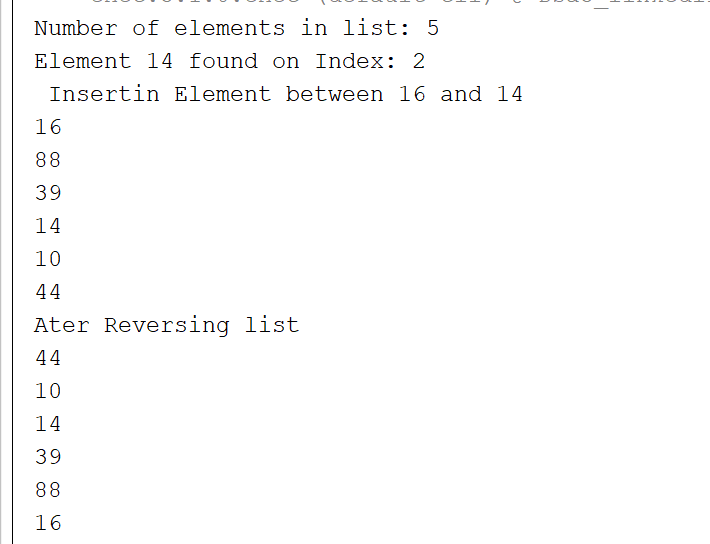
1. **Count Nodes:**

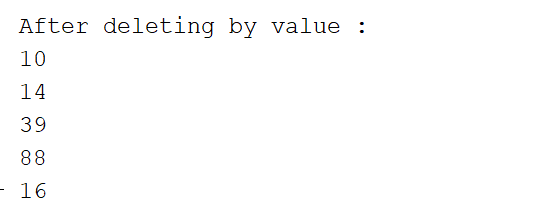
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**Calling all the functions:**

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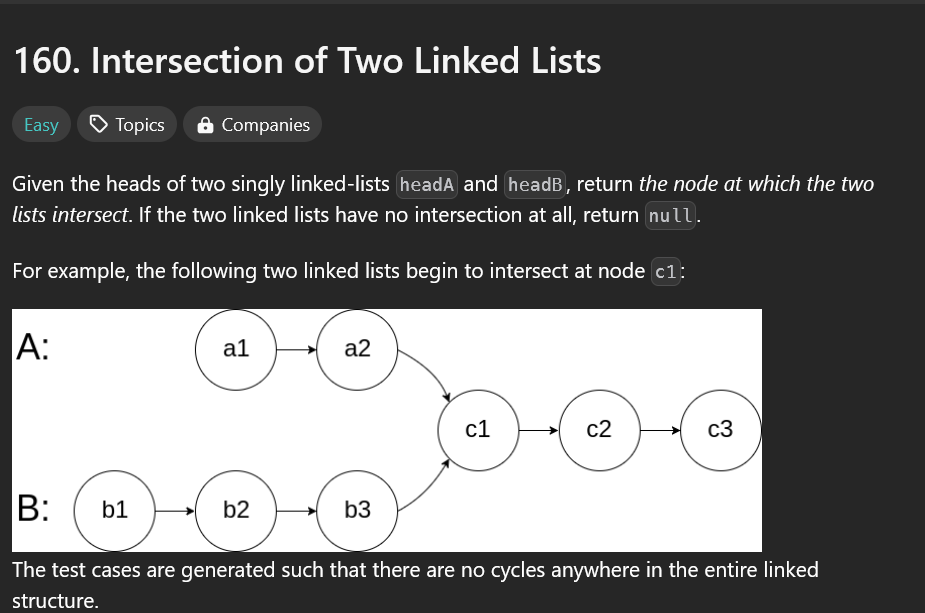
**Output:**

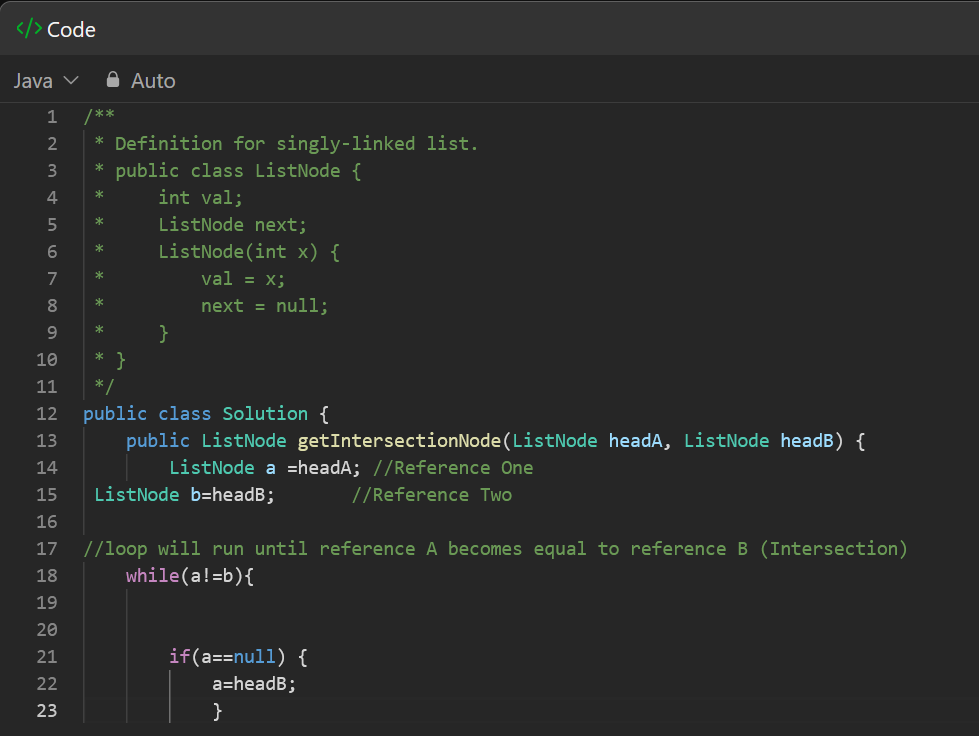
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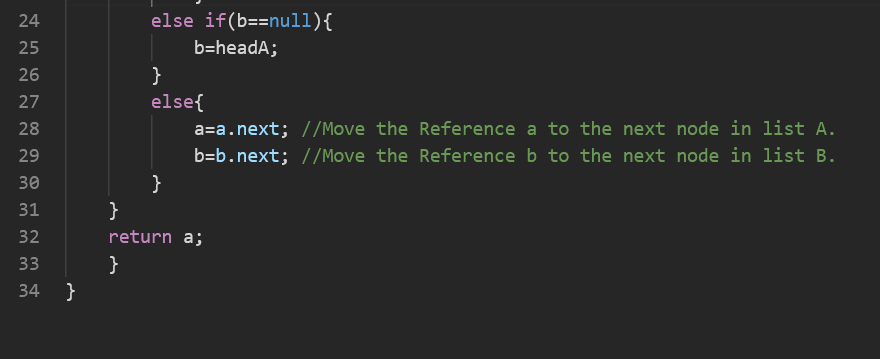
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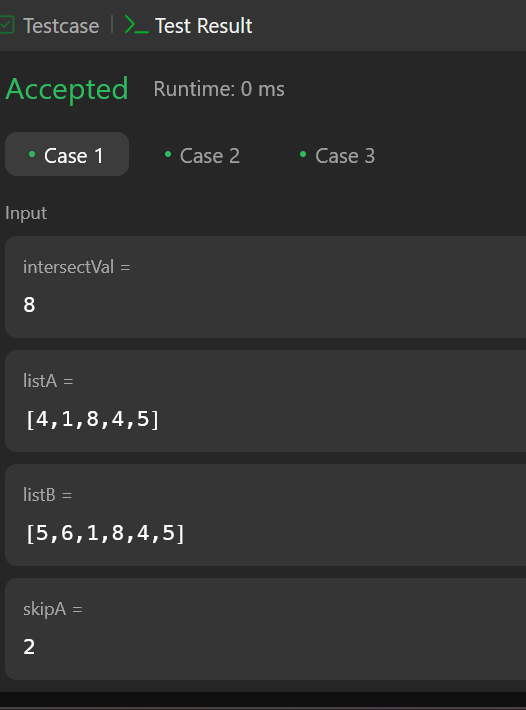
**Part Two:**

**TASK 1:**

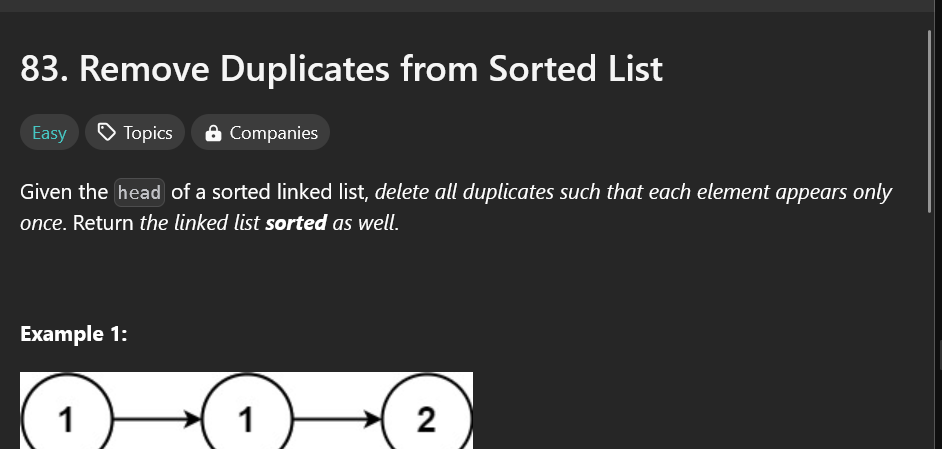


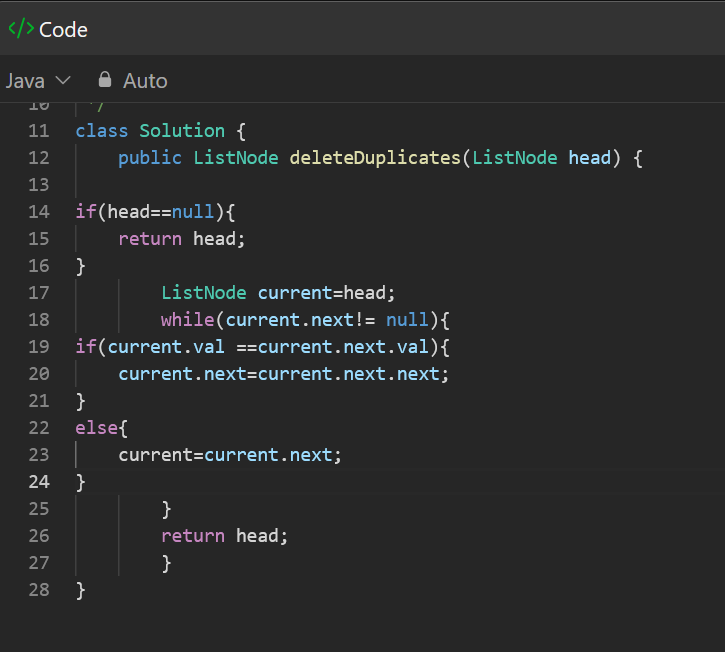


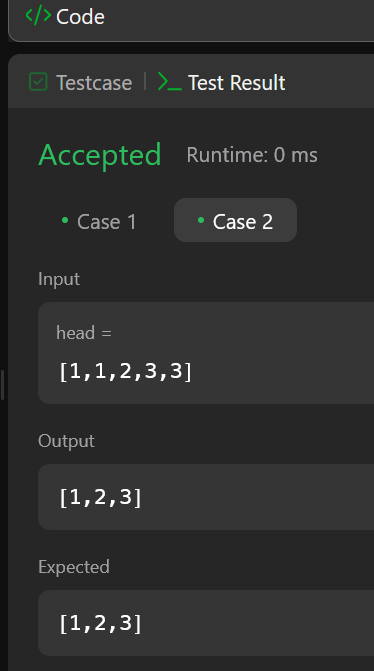




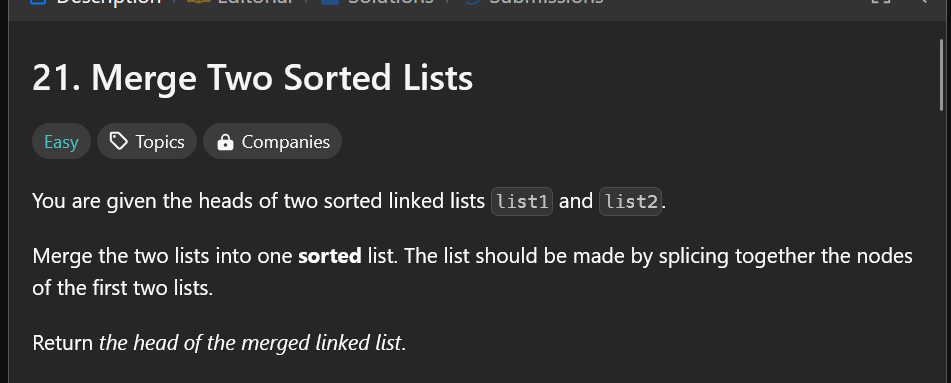
**TASK 2:**

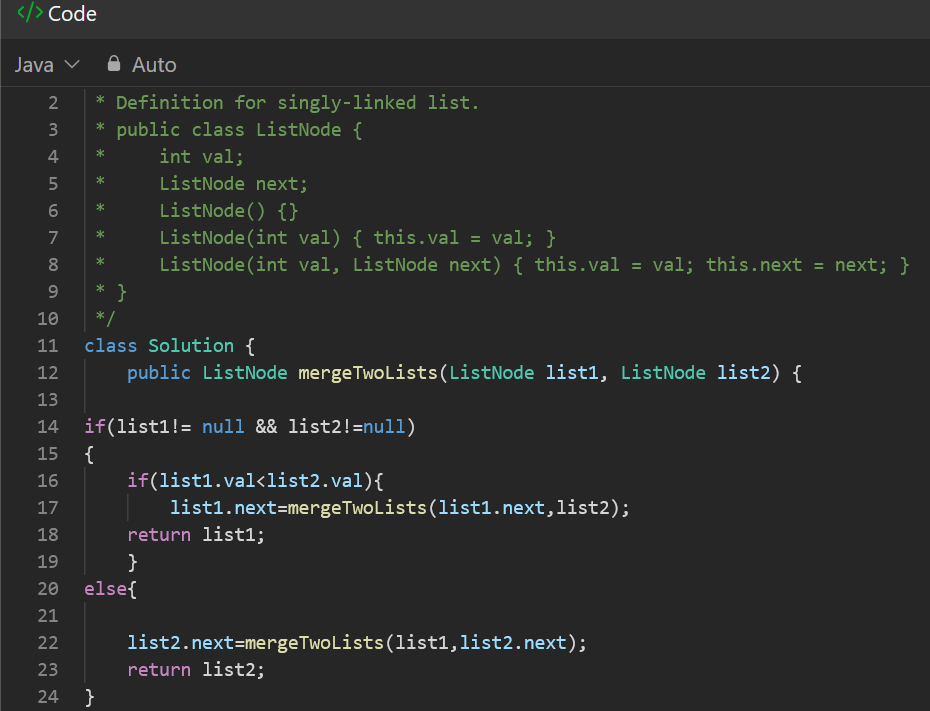


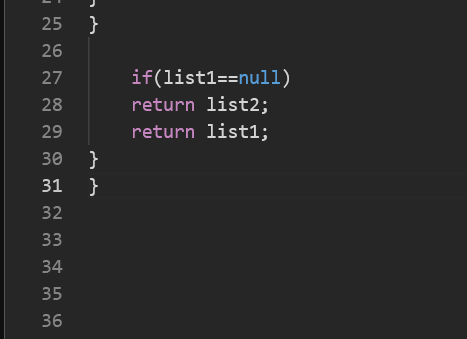


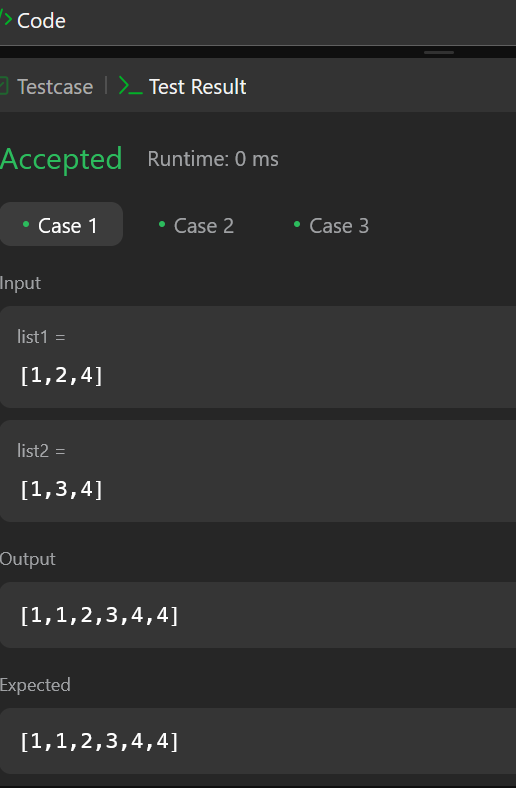


**TASK 3:**









**TASK 4:**

