# lab Assignment

# Merge

**Assignment:**

Write a method to merge two sorted lists into one sorted list.

Add the code for your merge method to the provided starter code merge template, *Merge.java*.

**Instructions:**

The merge algorithm is prone to logic errors. The most common error is dealing with cases when you have reached the end of one list or the other. You are to test these 6 different input scenarios or trials:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **List A** | | **List B** | |
|  | **Quantity** | **Largest Value** | **Quantity** | **Largest Value** |
| **Trial 1** | 20 | 100 | 40 | 100 |
| **Trial 2** | 40 | 100 | 20 | 100 |
| **Trial 3** | 20 | 100 | 40 | 50 |
| **Trial 4** | 20 | 50 | 40 | 100 |
| **Trial 5** | 40 | 50 | 20 | 100 |
| **Trial 6** | 40 | 100 | 20 | 50 |