

## LAB EXERCISE

### Merge

#### Assignment:

1. As explained in the student outline, write a method to merge two sorted lists into one sorted list.
2. Add the code for your merge method to the provided merge template program, *MergeTemplate.java*. This lab exercise is NOT part of the lab work starting with Lab 22.1, do not add information to your data table from Lab 22.1.

#### Instructions:

1. 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:

	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

2. Turn in your source code and the printed run output for trials 4 and 6. If possible, print only the merge function source code.