Name:	Name:
Name:	Name:

Merge Sort Recursion Tree

 How many sub-problems are there at any given level (use L in your equation)? Note: root is Level 0, the second level is Level 1, and leaves are at Level log₂(n). For Merge Sort, "sub-problem" refers to a call to the Merge function.

2. How many elements are there for a given sub-problem found in level L? Here, elements refers to the numbers in the subarray passed to the Merge function.

 How much work is performed at a given level? Note: we found that the cost of the Merge function was 21m.

4. What is the total computational cost of the MergeSort function?