Name:	Name:
Name:	Name:
Algo	rithms, Merge Sort Recursion Tree - Sunday, January 31, 2021
1.	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.
3.	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?