Problem Set #1 (Algorithms)

Department:	
Student ID:	
Student Name:	

- 1. Consider the MERGE procedure on an input of n numbers. For simplicity, assume that n is a power of 2. For the best case, analyze the time complexity of the MERGE procedure in Θ -notation mathematically. And, explain your analysis.
- 2. Consider the MERGE-SORT procedure on an input of n numbers. For simplicity, assume that n is a power of 2. For the best case, analyze the time complexity of the MERGE-SORT procedure in Θ -notation mathematically. And, explain your analysis.