



# **JAVA** **Merge Sort**

## **Assignment Questions**

**Q1.** Given an array of integers, sort it in descending order using merge sort algorithm.

**Q2.** Reverse Pairs (Leetcode Problem) : Given an integer array `nums`, return the number of reverse pairs in the array.

A reverse pair is a pair  $(i, j)$  where:  
 $0 \leq i < j < \text{nums.length}$  and  
 $\text{nums}[i] > 2 * \text{nums}[j]$ .





**THANK  
YOU !**

