**Merge sort**

1. **Is merge sort inplace? Explain why**
2. **Is merge sort stable? Explain why**
3. **How can we make merge sort more efficient?**
4. **What types of datasets is merge sort best with?**
5. **Explain how merge sort is a divide and conquer algorithm**
6. **When does the worst case of merge sort occur?**
7. Visualize merge sort algorithm on a set of numbers: [2, 5, 3, 7, 5, 1, 8]
8. Explain the best and worst case time complexity with inputs also
9. Look over the code to confirm techniques used in your visualization