Name: _____   Group (A/B): _____

Merge Sort Quiz

☐ Pre-learning
☐ Post-learning

Answer each of the following questions by circling the correct answer.

1. Which technique does merge sort use?
        a. Dynamic programming
        b. Greedy
        c. Backtracking
        d. Divide and conquer

2. Merge sort is in-place by default.
        a. True
        b. False

3. Which of the following is not a variant of merge sort?
        a. Linear
        b. Top-down
        c. In-place
        d. Bottom-up

4. Merge sort is a stable sorting algorithm.
        a. True
        b. False

5. What is the average time complexity of merge sort?
        a. O(n)
        b. O(n^2)
        c. O(n log n)
        d. O(1)