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**Exercise 3: Sorting Customer Orders**

Scenario:

You are tasked with sorting customer orders by their total price on an e-commerce platform. This helps in prioritizing high-value orders.

Steps:

1. Understand Sorting Algorithms:

o Explain different sorting algorithms (Bubble Sort, Insertion Sort, Quick Sort, Merge Sort).

2. Setup:

o Create a class Order with attributes like orderId, customerName, and totalPrice.

3. Implementation:

o Implement Bubble Sort to sort orders by totalPrice.

o Implement Quick Sort to sort orders by totalPrice.

4. Analysis:

o Compare the performance (time complexity) of Bubble Sort and Quick Sort.

o Discuss why Quick Sort is generally preferred over Bubble Sort.  
