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**CS213 Q 1: Lecture 21: You are given a list of integers: [31, 15, 4, 27]. You decide to apply the Mergesort algorithm to sort this list in increasing order. After the first split and merge step, determine which of the following statements are true and which are false regarding the sublists:**

The second sublist will be [4, 27].

After the first split, one sublist will be [31, 15, 4].

The first sublist will be [31, 15].

After the second merge step, the second sublist will become [27, 4].

**Answer**

Note: please be careful before submitting the answer. You will not be able to change the answers.

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You have answered the following:

The second sublist will be [4, 27]. (You are correct)

After the first split, one sublist will be [31, 15, 4]. (You are correct)

The first sublist will be [31, 15]. (You are correct)

After the second merge step, the second sublist will become [27, 4]. (You are correct)

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