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**CS213 Q 1: Lecture 13: Consider the string S = "ABABDABACD" and the pattern P = "ABABD". You wish to use the Knuth-Morris-Pratt algorithm to determine the starting positions in the string S where the pattern P matches. Given the computation of the KMP algorithm, evaluate the following statements:**

The longest proper prefix, which is also a suffix for the pattern "ABAB" is "ABAB".

The pattern "ABA" in the string "ABABABA" matches exactly 3 times.

If we added A at the end of the "ABABA" String, then the length of the longest common suffix and prefix is increased.

The pattern P matches at the 0th position of string S.

**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 longest proper prefix, which is also a suffix for the pattern "ABAB" is "ABAB". (You are correct)
- The pattern "ABA" in the string "ABABABA" matches exactly 3 times. (You are correct)
- If we added A at the end of the "ABABA" String, then the length of the longest common suffix and prefix is increased. (You are incorrect)
- The pattern P matches at the 0th position of string S. (You are correct)

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