



Inference algorithm is complete only if

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It is truth preserving

Show Answer...

**Correct Answer: D. It can derive any sentence that is an entailed version & It is truth preserving**

## Completing Inference: Understanding the Conditions

### Inference algorithm is complete only if

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Completeness in an inference algorithm requires specific conditions to be met. Let's explore the options to understand what makes an inference algorithm complete.

**Answer:**

D. It can derive any sentence that is an entailed version & It is truth preserving

### Understanding Completeness in Inference:

Completeness in inference refers to the ability of an algorithm to derive specific types of sentences. The conditions for completeness are outlined as follows:

**Options:**

**A. It can derive any sentence:**

This is not sufficient for completeness. The algorithm must have a specific focus on entailed versions.

**B. It can derive any sentence that is an entailed version:**

This is closer to completeness, but it requires an additional condition.

**C. It is truth preserving:**

Truth preservation is crucial but alone does not ensure completeness.

**D. It can derive any sentence that is an entailed version & It is truth preserving:**

This is the correct answer. Completeness requires the ability to derive any sentence that is an entailed version while ensuring truth preservation.

**Conclusion:**

Understanding the conditions for completeness in an inference algorithm is essential for its effectiveness. The correct answer encompasses both the derivation of entailed versions and truth preservation.

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