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Explain different sources of Ambiguity.

In computer science, an ambiguous grammar is a context-free grammar for which there exists a string that can have more than one leftmost derivation or parse tree.

- · Lexical ambiguity: Words have multiple meanings.
- · Syntactic ambiguity: A sentence has multiple parse trees.
- Semantic ambiguity: Even after the syntax and the meanings of the individual words have been resolved, there are two ways of reading the sentence.
- · Anaphoric ambiguity: A phrase or word refers to something previously mentioned, but there is more than one possibility.
- · Non-Literal Speech: Metaphors.
- · Ellipsis: The omission of words that are needed for grammatical completion, and are "understood".

- 2. Explain the Attributes & Binding of a data object.
- A Data object represents a container for data values, a place where data values may be stored and later retrieved.

The Attributes & Binding of Data Objects are as follows:

- 1. Type: This associates the data object with the set of data values that the object may take.
- 2. Location: This associate the binding of a storage location in memory where the data object is represented. Only storage management routines can only change add data object in the virtual computer.
- 3. Value: This binding is usually the result of an assignment operation
- 4. Name: The binding to one or more names by which the object maybe referenced during program execution is usually set up by declaration and modified by subprogram calls the returns.

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5. Component: The binding of a data object to one or more data object of which it is a component is often represented by a pointer value. And may be modified by a change in pointer.