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**QUESTION 1**

A **lexeme** is a sequence of characters in the source program that matches the pattern for a token and is identified by the lexical analyzer as an instance of that token.

**While**,

A **token** is a pair consisting of a token name and an optional attribute value. The token bbname is an abstract symbol representing a kind of lexical unit.

An example includes:  
x = a + b \* 2  
Which yields the lexemes: {x, =, a, +, b, \*, 2}  
With corresponding tokens: {<**id**, 0>, <=>, <**id**, 1>, <+>, <**id**, 2>, <\*>, <**id**, 3>}