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Questions

1. In computer science, what does O(1) describe in terms of algorithm efficiency?

A. Logarithmic complexity
B. Constant complexity
C. Linear complexity
D. Quadratic complexity

2. In number theory, what makes 1 a special number?

A. It is neither prime nor composite
B. Even number
C. The smallest prime number
D. Composite number

3. Which mathematical property states that a number multiplied by 1 remains unchanged?

A. Identity property
B. Commutative property
C. Associative property
D. Distributive property

4. What is the multiplicative inverse of the number 1?

A. Undefined
B. 1
C. -1
D. 0

5. How is the number 1 classified in standard modern mathematics?

A. Even number
B. Neither even nor odd
C. Both even and odd
D. Odd number

6. What is the second number in the Fibonacci sequence?

A. 2
B. 3
C. 1
D. 0

7. In linear algebra, what is a 1x1 matrix with a value of 1 called?

A. Identity matrix
B. 0 matrix
C. Zero matrix
D. Singular matrix

8. In Boolean logic, what does the number 1 typically represent?

A. Doubt
B. Falsehood
C. Truth
D. Illusion

9. What is the factorial of the number 1?

A. 0
B. 2
C. 10
D. 1

10. In music theory, which interval involves two notes of the same pitch?

A. Fifth
B. Unison
C. Octave
D. Third