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Questions

1. What is the primary function of the code snippet '55528raY4Zp' OR 545=(SELECT 545 FROM PG_SLEEP(15))--' in the context of cybersecurity?

A. To inject a delay in the database query execution
B. To sanitize user inputs effectively
C. To close database connections temporarily
D. To encrypt data before storing

2. In what scenario would an injection delay, like PG_SLEEP(), be particularly useful for attackers?

A. To improve data write efficiency
B. To bypass firewall protections
C. To detect vulnerabilities through response timing
D. When needing to access encrypted files

3. What is a strategy attackers may use in a blind SQL injection attack to gain insights from a database?

A. Crafting complex stored procedures
B. Encoding data in base64
C. Utilizing HTTP headers for injection
D. Exploiting conditional error messages to generate different responses

4. What role do regular expressions play in detecting potential SQL injection attacks?

A. By securing authentication processes
B. By blocking any input containing numbers
C. By detecting patterns and keywords typical of SQL injection attacks
D. By validating server responses

5. What strategy could help prevent SQL injection attacks?

A. Decreasing the allowed query execution time for all operations
B. Implementing strict input validation and sanitation
C. Replacing all SQL operations with batch processes
D. Regularly updating database timestamps