Sample Questions - Mixed Format

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This file demonstrates a mix of different question types.

Note: Correct answers are underlined.

Câu 1: Hệ quản trị cơ sở dữ liệu nào sau đây là mã nguồn mở? (CLO1)

A. Oracle Database

B. Microsoft SQL Server

C. MySQL

D. IBM DB2

Câu 2: Fill in the blank: "The value of π (pi) is approximately \_\_\_\_\_" (CLO1)

A. 3.14

B. 2.71

C. 1.62

D. 1.41

Questions (3)-(5) refer to the following code snippet: (CLO3)

[<sg>]

def fibonacci(n):

if n <= 1:

return n

else:

return fibonacci(n-1) + fibonacci(n-2)

[</sg>]

(3) What will be the output for fibonacci(3)?

A. 1

B. 2

C. 3

D. 5

(4) What is the base case in this recursive function?

A. n > 1

B. n <= 1

C. n == 0

D. n == 1

(5) What is the time complexity of this recursive implementation?

A. O(n)

B. O(log n)

C. O(n²)

D. O(2ⁿ)