X





# Week 4: Assignment 4

**The due date for submitting this assignment has passed.**

**Due on 2021-09-01, 23:59 IST.**

## Assignment submitted on 2021-09-01, 22:05 IST

1) Which of the following is a graph model used for design integration testing? ***1 point***

- Control flow graph.
- Data flow graph.
- Call graph
- Design graph.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*Call graph*

2) In design integration, when a caller method $m_1$ calls a callee method $m_2$, the variables from $m_1$ that are used in the call are called as . . . . . ***1 point***

- Actual parameters.
- Formal parameters.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*Actual parameters.*

3) In design integration, when two methods make queries and updates to an external database, which coupling definition does it represent? ***1 point***

- Message passing coupling.
- Shared data coupling.

Parameter coupling.
External device coupling.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*External device coupling.*

4) A simple path from the last definition to the first use of a coupling variable is called as . . . . . ..  ***1 point***

A du-path.
A coupling du-path.

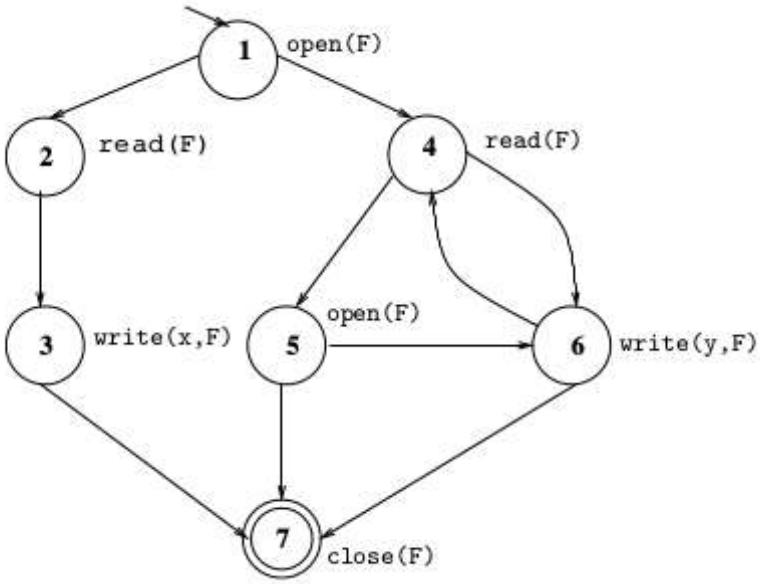
Yes, the answer is correct.
Score: 1
Accepted Answers:
*A coupling du-path.*

5) State true or false: Are control flow graphs representing code the same as finite state machines that represent the same code.  ***1 point***

True.
False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*False.*

Consider the graph below that depicts the calls to file handler methods open(), close(), read() and write(). Any procedure/method that uses these methods has to satisfy the following sequencing constraints: (1) An open(f) must be executed before every write(t), (2) An open(f) must be executed before every close(), (3) A write(f) may not be executed after a close() unless there is an open(f) in between, (4) A write(t) should be executed before every close().




Answer the following questions with reference to the sequencing con- straints and the graph a

**Text Transcripts**

**Books**

method that uses these constraints.

6) Which of the following is true with reference to the graph satisfying the sequencing constraints? ***1 point***

- All the sequencing constraints are satisfied.
- Constraints (1) and (2) are satisfied but (3) and (4) are not.
- Constraints (1), (2) and (3) are satisfied but (4) is not.
- All constraints are violated.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*Constraints (1), (2) and (3) are satisfied but (4) is not.*

7) State true or false: The path (1,4,5,7) satisfies constraint (4). ***1 point***

- True.
- False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*False.*

8) State true or false: The path (1,2,3,7) satisfies all the constraints. ***1 point***

- True.
- False.

Yes, the answer is correct.
Score: 1
Accepted Answers:
*True.*

9) State yes or no: Does the path (1,4,6,5,7) violate any of the constraints? ***0 points***

- Yes.
- No.

Yes, the answer is correct.
Score: 0
Accepted Answers:
*No.*

10) State true or false: The path (1,4,6,4,6,5,7) satisfies all the constraints. ***0 points***

- Yes.
- No.

Yes, the answer is correct.
Score: 0
Accepted Answers:
*Yes.*