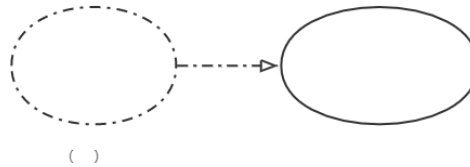


一、单项选择题

1. As is shown in the diagram below, a designer can describe the design of one or more scenarios of a use case; each of these is called a ().

- A. Use-case Realization
- B. Use-case Scenario
- C. Use-case Model
- D. Use-case Specification



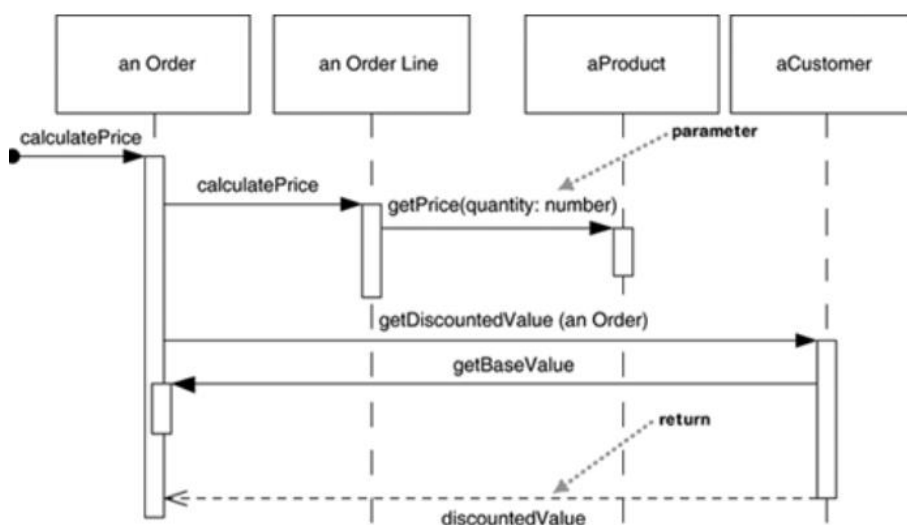
2. Which of the following statements is TRUE about the diagram shown below ().

- A. Window has a required interface.
- B. Clock is a provided interface.
- C. Window has a dependency on the Timer interface.
- D. Timer is an abstract.



3. Which of the following statement is TRUE for the UML Diagram below EXCEPT for ()?

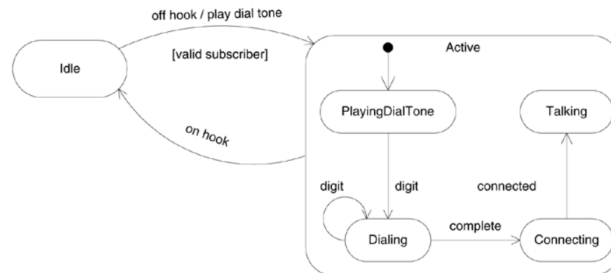
- A. The Order asks each Order Line to calculate its own Price. The Order Line itself further hands off the calculation to the Product with a parameter;
- B. The diagram shows details of algorithms about the event of calculatePrice.
- C. The diagram shows a number of example objects and the messages that are passed between these objects within a use case.
- D. The diagram shows a single scenario that we have an order and are going to invoke a command on it to calculate its price.



4. Which of the following statement is TRUE for the UML Diagram below EXCEPT for ()?

- A. The diagram is good at depicting the behavior of an object across multiple use cases.

- B. The diagram models the behavior of a single complex reactive object in response to events.
- C. Active is a nested state with sub-states, which indicates that the state machine is completed.
- D. The label of off hook on the transition from the Idle State to the Active State is an action causes the transition.

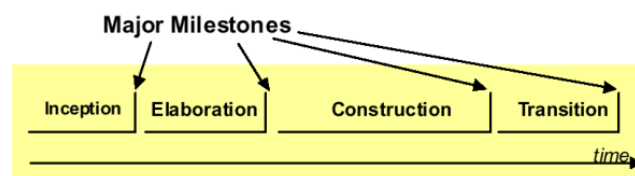


5. The UML diagram below shows a () declaration with the symbol of «» and its use.

- A. Tagged Value
- B. Constraint
- C. Stereotype
- D. Profile



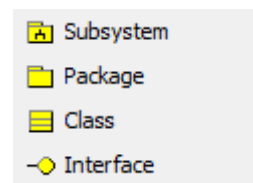
6. Which of the following is NOT TRUE to the major milestones for the phase of **Inception** (as is shown below) of the process of RUP?



- A. Use-case Model, which is completed about 80%.
- B. Prototypes and proof-of-concepts for a critical use case.
- C. Project scope definition, cost and schedule estimation.
- D. Business case are set up and confirmed with the core business rules has been archived.

7. StarUML is an open source UML development tool. With the tool, new project could be created by the approach to support 4+1 View Model of software architecture. Which of the following view is chosen to model a system with UML vocabulary, as is shown below. ()

- A. Logical View.
- B. Process View.
- C. Development View.
- D. Physical View.



8. Suppose that the software architect wants a design that has low impact on the existing software components. That is, she or he wants to design for a separation of concerns, and factor out this rule handling into a separate concern.

Furthermore, suppose that the architect is unsure of the best implementation for this pluggable rule handling, and may want to experiment with different solutions for representing, loading, and evaluating the rules. For example, rules can be implemented with the Strategy pattern, or with free open-source rule interpreters that read and interpret a set of IF-THEN rules, or with commercial, purchased rule interpreters, among other solutions.

To solve this design problem, the () pattern can be used.

- A. Facade .
- B. Observer .
- C. Factory .
- D. Proxy .

9. Protect Variation is a root principle motivating most of the mechanisms and patterns in programming and design to provide flexibility and protection Except for ()?

- A. Data-Driven Design
- B. Interpreter-Driven Design
- C. Demeter Law and Don't Talk to Strangers Principle
- D. Thread and Asynchronous message

10. When using RUP artifacts to organize and assign team responsibilities on a project, it is BEST to:

- A. evenly distribute use cases among team members and have them work as independently as possible in order to minimize code dependencies.
- B. designate one team for implementing interaction diagrams related to the "common code path" and another team for implementing interaction diagrams related to "code path variations" (for example , conditional or error paths).
- C. divide teams according to the layers in the software architecture and have them work as independently as possible in order to minimize dependencies between the layers.
- D. In the elaboration phase of the Unified Process one is supposed to produce one or more throw-away prototypes of the system to check the suitability of the proposed architecture.

简答题

1. Describe the Strengths and Weaknesses of Sequence vs. Communication Diagram.

Answer

2. Describe the state diagram and use library books as an example.

Answer