# Module 10 - Quiz

- Due Nov 4 at 11:59pm
- Points 100
- Questions 10
- Time Limit 30 Minutes
- Allowed Attempts 2

# Instructions

The purpose of this quiz is to check your understanding of and reinforce key concepts covered in this module.

[ Take the Quiz Again ]

## Attempt History

| | Attempt | Time | Score |
|---|---|---|---|
| **LATEST** | **Attempt 1** | 13 minutes | 100 out of 100 |

⊙ Correct answers are hidden.

Score for this attempt: 100 out of 100
Submitted Nov 4 at 3:35am
This attempt took 13 minutes.

⠿

Question 1

10 / 10 pts

A concrete subject class in the Observer pattern typically provides a method called update that will contain customized behavior for how the subject should respond to a state change.

○ True

◉ False

⠿

Question 2

10 / 10 pts

Studies have shown that what percentage of the total cost of large software projects is expended after initial delivery (i.e., during the maintenance phase)?

○ 50%

◉ 70%

○ 10%

○ 30%

⋮⋮

## Question 3

**10 / 10 pts**

The Façade pattern is an example of which of the following design pattern categories?

◉ Structural

○ Creational

○ Interface

○ Behavioral

⋮⋮

## Question 4

**10 / 10 pts**

Software reliability is measured in what units?

○ Absolute number (no units)

○ Percentage

◉ Time (hours, days, months, years, etc.)

○ Effort (person-hours, person-weeks, etc.)

⋮⋮

## Question 5

**10 / 10 pts**

Which of the following are key components in the Singleton design pattern solution? (Select all that apply)

☑ A non-public class constructor.

☐ A counter that ensures only a single instance has been created.

☑ A static instance variable.

☐ A class destructor.

⋮⋮

## Question 6

**10 / 10 pts**

The type of reuse where the developer fills in the details in a partially built application is called:

○ Glue code

○ Component reuse

◉ Framework reuse

○ Hole reuse

⋮⋮

## Question 7

**10 / 10 pts**

The type of reuse where you can read the reused code, but you can't change it is called:

○ Black box

◉ Translucent box

○ Clear box

○ Red box

⋮⋮

## Question 8

10 / 10 pts

Which of the following is not likely to be an impediment to reuse?

○ Liability

○ NIH (Not Invented Here)

○ Intellectual property disputes

◉ Time and cost of reusing is greater than building the code yourself

⋮⋮

## Question 9

10 / 10 pts

Of the following, which is the poorest way to determine whether we can trust the quality of a reusable component?

◉ The documentation provided by the developer

○ Internal testing

○ An independent testing organization

○ Feedback from other users

⋮⋮

## Question 10

10 / 10 pts

Of the following, which kind of maintenance activity accounts for the most effort over the life of a piece of software?

○ Adaptive

○ Preventive

◉ Perfective

○ Corrective

Quiz Score: 100 out of 100