

**Short-Answer and Multiple-Choice Questions:**

1. What does MVC stand for?

Given these options:

- a. Responsible for user interface
- b. Responsible for security of the system
- c. Responsible for “business logic” and domain objects
- d. Responsible for translating between user interface actions/events and operations on the domain objects
- e. None of the above

2. What are the M components in MVC responsible for?

3. What are the V components in MVC responsible for?

4. What are the C components in MVC responsible for?

**Solutions:**

1. Model-View-Controller
2. c
3. a
4. d



**Solution:**

No. The View class, GuiButton, has a method computeTeam-Record(). Computing a team's win/loss record is domain concern. Thus, a view class contains ~~model~~ model code, which violates the Model-View Separation Principle.

**Problem:**

For each of the three major parts of the MVC architectural pattern, tell the name of the part and its main responsibilities in the pattern.

**Solution:**

For each of the three major parts of the MVC architectural pattern, tell the name of the part and its main responsibilities in the pattern.

Model: Responsible for providing the app's "business logic".

View: Responsible for providing the app's user interface (UI).

Controller: Responsible for translating UI actions to operations on the model.

**Multiple-Choice Questions:**

1. What are the M components in MVC responsible for?
  - a. Responsible for user interface
  - b. Responsible for security of the system
  - c. Responsible for “business logic” and domain objects
  - d. Responsible for translating between user interface actions/events and operations on the domain objects
  - e. None of the above
  
2. What are the V components in MVC responsible for?
  - a. Responsible for user interface
  - b. Responsible for security of the system
  - c. Responsible for “business logic” and domain objects
  - d. Responsible for translating between user interface actions/events and operations on the domain objects
  - e. None of the above
  
3. What are the C components in MVC responsible for?
  - a. Responsible for user interface
  - b. Responsible for security of the system
  - c. Responsible for “business logic” and domain objects
  - d. Responsible for translating between user interface actions/events and operations on the domain objects
  - e. None of the above

**Solutions:**

1. c

2. a

3. d