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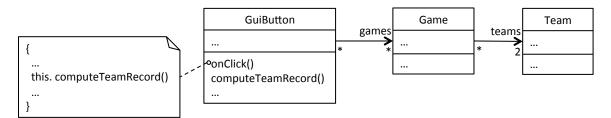
2. What are the M components in MVC responsible for?

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

Problem: Does the following design obey the Model-View Separation Principle? Explain your answer.

```
{
  ...
   this. computeTeamRecord()
  ...
}
```

GuiButton
...
onClick() computeTeamRecord() ...

games

Game
...
...

teams

Team
...
...

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Solution:

No. The View class, GuiButton, has a method computeTeam-Record(). Computing a teams win/loss record is domain concern. Thus, a view class ~~is~~ contains ~~~~ 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