Take Test: Final Exam

Test Information

Description

You are agreeing to abide by the following, in accordance with the ODU Honor Code:

- All answers submitted must be your own work. You may not receive aid or information from anyone other than the instructor.
- Printing or otherwise capturing any portion of this exam is forbidden.
- You may not provide information to other students during the exam. You may not communicate with other students about the contents of the exam until the answer key has been released (which may be delayed if the instructor were to grant extensions due to illness, etc.)

During the exam, you may refer to any notes or books that you have brought with you. You may use the web browser to visit the course web site (directly or through

Blackboard) and any materials have provided to you (e.g., Example Code). SS19nment Project Exam Help If you fine yourself working for a long time on an essay-style question, please use the Save button every few minutes to guard against losing your work due to web browser timeouts or temporarily dropped network connections.

You may not visit other web sites, or make use of other electronic devices during the exam. You have 3 hours (180 minutes) to complete the exam.

Instructions

when three expires, and you may continue or submit. Timed Test This test has a time limit of a hours! Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Not allowed. This test can only be taken once

Remaining Time: 1 hour, 03 minutes, 50 seconds.

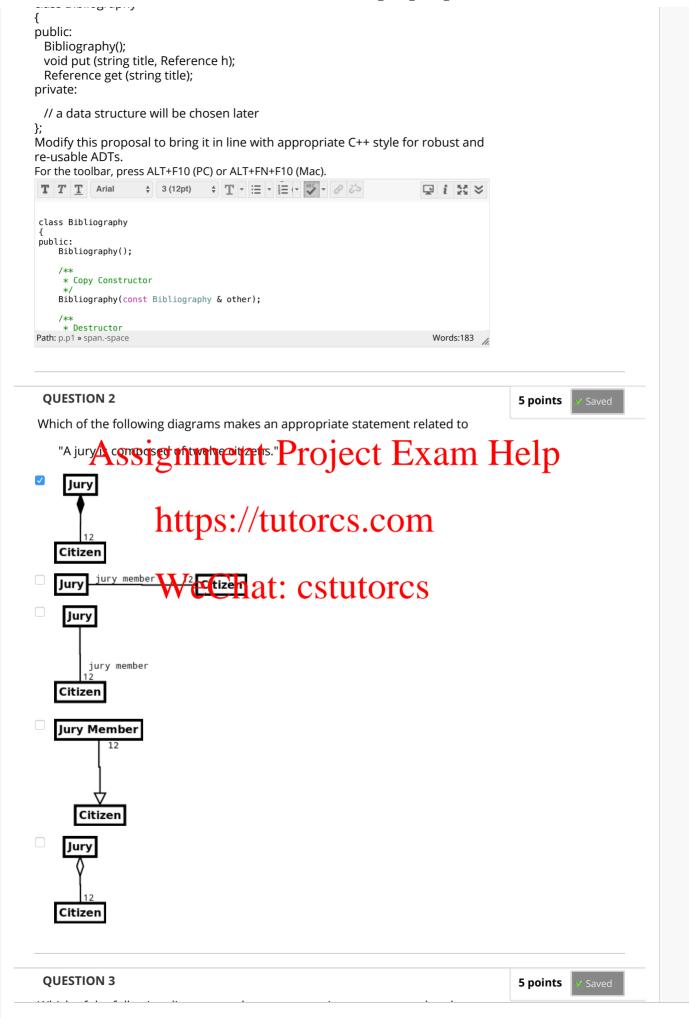
▼ Question Completion Status:

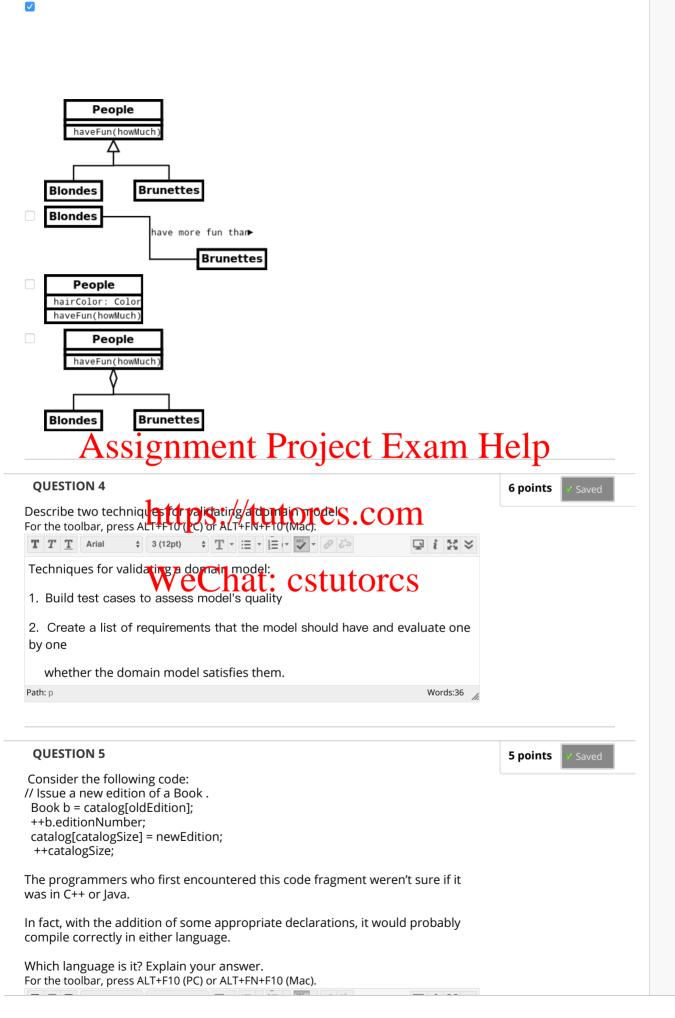
QUESTION 1

As part of a system for aiding student library research, a program is being developed to maintain a bibliography as a student prepares a term paper. You are designing a "Bibliography" class. In essence, a "Bibliography" is a container of "References" (books ,papers, etc.).

Assume that someone else has the responsibility of designing the "Reference" class. The most essential operations on a Bibliography are to add Reference objects identified by a title (a string), to fetch a Reference previously associated with a title, and to access all references in the bibliography.

12 points





In c++, code `Book b = catalog[oldEdition]` will copy by value, in java, it will copy by reference.

Thus, in java, it will result in two references that both reference the same book . There is no such problem with c++.

Path: p » span Words:56

QUESTION 6

12 points

As part of an office automation suite, you are designing a "Binder" class to emulate a 3-ring binder. In essence, a Binder is a container that maintains a set of "Documents" in a linear order.

Assume that someone else has the responsibility of designing the "Document" class. The Document class will actually be a base class for several different kinds of documents, such as letters, articles, slide sets, etc.

The most essential operations on a Binder are to add a Document object at a specific position (given as an integer) or to fetch a Document previously inserted into such a position.

A junior programmer has proposed the following interface for the binders.

```
public class Binder {
Binder(int maxDocuments) {...}
```

void put (int position, Document doc) {...} Project Exam Help int number of Documents() {...} // A data structure will be selected later

In your best Java style rettiphis proposalt Ontonio acpopiati Java standards for robust and re-usable classes.

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



QUESTION 7

5 points



In writing a typical Java GUI, we often have to provide certain functions for which we will never, anywhere in our code, write a function call.

What are the most common examples of such functions? For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).



The most common examples are to add ActionListener to GUI objects such as button.

Following code is an example.

JButton button=new JButton("Example");

QUESTION 8

6 points

Consider the following use case for for a Credit Reporting Agency (CRA):

- 1. A customer applies for a new mortgage with a bank.
- 2. The bank sends a query to the CRA asking for the customer's credit rating.
- 3. The CRA records the fact that a credit inquiry was made regarding that customer in the customer's credit history, stored at the CRA.
- 4. If more than K (a secret constant that varies from one CRA to another) credit inquiries have been made about that customer within a month, the customer's rating is decreased, with the new value recorded in the credit history.
- 5. The CRA sends the customer's credit rating (from the customer's credit history) to the bank.
- 6. The bank informs the customer of his credit rating.

Assume, for the sake of discussion, that the step numbers denote time (e.g., the query is sent at time t=2 seconds).

Which of the following statements are likely to be true for a sequence diagram portraying this use case?

- There is a solid arrow labelled "requestCreditRating(customer)" at time t=2 from the Bank timeline to the CRA timeline.
- ☑ There is a solid arrow labelled "recordInquiry()" at time t=3 from the CRA timeline to the Customer timeline.
- t. Exam Help There is a solid arrow labelled send credit Rating rating the CRA timeline to the Bank timeline.
- There is an anchor or an Opt frame near the middle of the time lines.
- There is an activation box of the CRA third in a from Simult=2 of time t=5.
- There is an activation box on the Bank timeline from time t=2 to time t=6

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