Quiz 09

Instructions

There is no time limit, but you may only make one submission.

Attempt History

	Attempt	Time	Score
LATEST	[Attempt 1](#)	79 minutes	9 out of 10

Score for this quiz: **9** out of 10
Submitted Oct 30 at 12:32pm
This attempt took 79 minutes.

Question 1	1 / 1 pts

An example of a fatal error that rarely occurs and is beyond your control is the ____.

Correct!

- ⊙ OutOfMemoryError

- ○ FileNotFoundException

- ○ RuntimeException

- ○ NumberFormatException

Question 2	1 / 1 pts

What is recommended if the standard library does not have an exception class that describes your particular error situation?

◦ Design your own exception class by implementing the `Throwable` interface.

◉ Design your own exception class as a subclass of an existing exception class.

◦ Design your own exception class as a superclass of an existing exception class.

◦ Choose `RuntimeException` from the standard library because it is unchecked and represents a generic exception.

Question 3

1 / 1 pts

Which of the following statements about checked and unchecked exceptions is true?

◉ The compiler ensures that the program is handling checked exceptions.

◦ All exceptions that are descendants of `RuntimeException` are checked exceptions.

◦ The compiler ensures that the program is handling unchecked exceptions.

◦ Checked exceptions are handled by the Java runtime.

Question 4
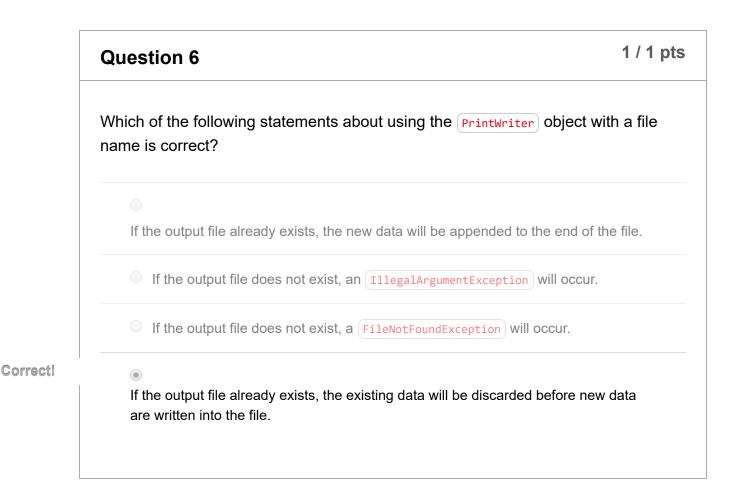
1 / 1 pts

Which of the following is NOT a typical usage of a Scanner object.

◦ Read input from the keyboard

◦ Parse individual data fields directly from a String in memory

◦ Read and parse a file from local storage

◉ Format output for display to the screen

Question 5

0 / 1 pts

If an input/output resource is not closed properly, what are the consequences (if any)?

○ Additional memory is needed for buffering, but data is neither lost nor delayed.

○ No data is lost, but its processing is be delayed until the resource times out.

Correct Answer

○ Data could be lost.

You Answered

⦿ There are no practical consequences; it is just a very poor practice.

Question 6

1 / 1 pts

Which of the following statements about using the `PrintWriter` object with a file name is correct?

○ If the output file already exists, the new data will be appended to the end of the file.

○ If the output file does not exist, an `IllegalArgumentException` will occur.

○ If the output file does not exist, a `FileNotFoundException` will occur.

Correct!

⦿ If the output file already exists, the existing data will be discarded before new data are written into the file.

Question 7

1 / 1 pts

What is the purpose of the `throw` statement?

○ It is used to detect an error situation.

○ It is used to discard erroneous input.

○ It is used to pass arguments to another method.

Correct! ● It is used to pass control to an error handler when an error situation is detected.

Question 8   1 / 1 pts

One of the main points of exception handling in Java is to separate detection and handling of errors. Which of the following is NOT an advantage of this technique?

○ Allows centralization of error handling

Correct! ● Can enforce a strict linear execution path

○ Allows decentralization of error detection

○ Can ensure certain resources are implicitly closed

Question 9   1 / 1 pts

What is the purpose of a catch() { } block?

○ Specify code that may throw a particular exception

○ Define code that will run regardless of which exceptions are thrown within the associated try block

○ Declare which exceptions can be thrown by a method

◉

Define code to handle a specified exception thrown within the associated try block

Question 10

1 / 1 pts

Which of the following statements about a PrintWriter object is true?

○ A PrintWriter will be automatically closed when the program exits.

○ No data loss will occur if the program fails to close a PrintWriter before exiting.

○ An exception will occur if the program fails to close a PrintWriter before exiting.

◉

Data loss may occur if a program fails to close a PrintWriter object before exiting.

Quiz Score: **9** out of 10