Java Programming (Intermediate) (92759)   Homeworks   Review Test Submission: Homework 4

Review Test Submission: Homework 4

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Course	Java Programming (Intermediate) (92759)
Test	Homework 4
Started	2/25/24 7:27 PM
Submitted	2/25/24 8:05 PM
Due Date	3/3/24 11:59 PM
Status	Completed
Attempt Score	30 out of 30 points
Time Elapsed	37 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers

Question 1
1 out of 1 points

_____ is an I/O-performance-enhancement technique—it reduces the number of I/O operations by combining smaller outputs together in memory; the number of physical I/O operations is much smaller than the number of I/O requests issued by the program.

Selected Answer: ✅ Buffering

Answers: Aggregating

                 Accumulating

                 Amassing

           ✅ Buffering

Question 2
1 out of 1 points

Which of the following is an area of secondary storage used to hold information?

Selected Answer: ✅ file

Answers: ✅ file

                 constant

                 variable

                 buffer

Question 3

1 out of 1 points

How do methods setIn, setOut
and setErr
affect the standard input, output and error streams?

Selected
Answer:
✅ They redirect the standard input, output and error streams.

Answers:
They output data to the standard input, output and error streams.

They provide the only way to access the standard input, output
and error streams.

✅ They redirect the standard input, output and error streams.

They empty the standard input, output and error streams.

Question 4

1 out of 1 points

Which of the following classes is *not* used for file input?

Selected Answer: ✅ Formatter

Answers:
FileInputStream

FileReader

ObjectInputStream

✅ Formatter

Question 5

1 out of 1 points

Path method _____ returns the String name of a file or directory without any
location information.

Selected Answer: ✅ getFileName

Answers:
getStringName

getFileOrDirectoryName

getDirectoryName

✅ getFileName

Question 6

1 out of 1 points

Which of the following statements is false?

Selected
Answer: ✅   Path objects open files and provide file-processing capabilities.

Answers: A Path represents the location of a file or directory.

                ✅   Path objects open files and provide file-processing capabilities.

                    Class Paths is used to get a Path object representing a file or
                    directory location.

                    The static method get of class Paths converts a String representing
                    a file's or directory's location into a Path object.

Question 7

1 out of 1 points

Which of the following statements is *false*?

Selected
Answer: ✅   Data maintained in files is often called transient data.

Answers: Storage of data in variables is temporary.

                    Data is lost when a local variable "goes out of scope."

                    Files are used for long-term retention of large amounts of data.

                ✅   Data maintained in files is often called transient data.

Question 8

1 out of 1 points

What does the following statement do?

   Scanner scanner = new Scanner(Paths.get("test.txt"));

Selected Answer: ✅   Opens a text file for input.

Answers: Opens a binary file for input.

                    Opens a binary file for output.

                ✅   Opens a text file for input.

                    Opens a text file for output.

Question 9

1 out of 1 points

What interface must a class implement to indicate that objects of the class can be
output and input as a stream of bytes?

Selected Answer: ✅   Serializable

Answers: Synchronize

Deserializable

✅ Serializable

ObjectOutput

Question 10

1 out of 1 points

Which statement regarding Java files is false?

Selected
Answer:

✅
Records in a Java sequential file are stored in order by record key.

Answers:

Java imposes no structure on a file.

Notions like "record" do not exist in Java files.

The programmer must structure files to meet the requirements of applications.

✅
Records in a Java sequential file are stored in order by record key.

Question 11

1 out of 1 points

Which of the following statements is false?

Selected
Answer:

✅
Class StringReader and StringWriter read characters from and write characters to Streams, respectively.

Answers:

A LineNumberReader is a buffered character stream that tracks the number of lines read.

Classes FileReader and FileWriter perform character-based file I/O.

Class PipedReader and class PipedWriter implement piped-character streams for transferring data between threads.

✅
Class StringReader and StringWriter read characters from and write characters to Streams, respectively.

Question 12

1 out of 1 points

Which of the following classes enable input and output of entire objects to or from a file?

(A) SerializedInputStream
(B) SerializedOutputStream
(C) ObjectInputStream
(D) ObjectOutputStream

(E) Scanner
(F) Formatter

Selected Answer: ✅ C and D.

Answers: A and B.

                ✅ C and D.

                   C, D, E, F.

                   E and F.

Question 13

1 out of 1 points

Class _____ provides static methods for common file and directory manipulations, including methods for copying files; creating and deleting files and directories; getting information about files and directories; reading the contents of files; getting objects that allow you to manipulate the contents of files and directories; and more.

Selected Answer: ✅ Files

Answers: File

                   FileAndDirectory

                ✅ Files

                   FilesAndDirectories

Question 14

1 out of 1 points

Look at the following code:

FileInputStream fstream = new FileInputStream("MyInfo.dat");
DataInputStream inputFile = new DataInputStream(fstream);

This code can also be written as:

Selected
Answer: ✅
               DataInputStream inputFile = new DataInputStream(new
               FileInputStream("MyInfo.dat"));

Answers: FileInputStream inputFile = new FileInputStream(new
                DataInputStream("MyInfo.dat"));

             ✅
               DataInputStream inputFile = new DataInputStream(new
               FileInputStream("MyInfo.dat"));

               FileInputStream fstream = new DataInputStream("InputFile.txt");

               DataInputStream inputFile = new DataInputStream("InputFile.txt");

Question 15

1 out of 1 points

When an object is serialized, it is converted into a series of bytes that contain the object's data.

Selected Answer: ✅ True

Answers: ✅ True

                   False

Question 16

1 out of 1 points

When all the contents of a file are truncated, this means that _____.

Selected Answer: ✅ all the data in the file is discarded

Answers: the data in the file is saved to a backup file

                      the file is deleted

                      a FileNotFoundException
                      occurs

                  ✅ all the data in the file is discarded

Question 17

1 out of 1 points

When all the contents of a file are truncated, this means that _____.

Selected Answer: ✅ all the data in the file is discarded

Answers: the data in the file is saved to a backup file

                      the file is deleted

                      a FileNotFoundException occurs

                  ✅ all the data in the file is discarded

Question 18

1 out of 1 points

Which of the following statements is false?

Selected
Answer: ✅
                 A relative path contains all the directories, starting with the root
                 directory, that lead to a specific file or directory.

Answers: A DirectoryStream enables a program to iterate through the
                     contents of a directory.

                     Character-based input and output can be performed with classes
                     Scanner and Formatter.

A relative path contains all the directories, starting with the root directory, that lead to a specific file or directory.

Every file or directory on a disk drive has the same root directory in its path.

Question 19

1 out of 1 points

Files static method _____ receives a Path and returns a Boolean indicating whether that Path represents a directory on disk.

Selected Answer: ✓ isDirectory

Answers: isDiskDirectory

                         ✓ isDirectory

                            isFileDirectory

                            isPath

Question 20

1 out of 1 points

Which of the following statements is false?

Selected
Answer: ✓
                With a BufferedOutputStream, a partially filled buffer can be forced out to the device at any time by invoking the stream object's force method.

Answers: With a BufferedOutputStream each output operation is directed to a buffer large enough to hold the data of many output operations. Transfer to the output device is performed in one large physical output operation when the buffer fills.

                ✓
                With a BufferedOutputStream, a partially filled buffer can be forced out to the device at any time by invoking the stream object's force method.

                With a BufferedInputStream, many "logical" chunks of data from a file are read as one large physical input operation into a memory buffer.

                With a BufferedInputStream, as a program requests data, it's taken from the buffer. When the buffer is empty, the next actual physical input operation is performed.

Question 21

1 out of 1 points

To serialize an object and write it to the file, use this method of the ObjectOutputStream class.

Selected Answer: ✅ WriteObject

Answers: SerializeObject

                    ✅ WriteObject

                    Serialize

                    SerializeAndWrite

Question 22

1 out of 1 points

Adding the services of one stream to another is known as _____.

Selected Answer: ✅ wrapping

Answers: chaining

                    ✅ wrapping

                    adding

                    sequencing

Question 23

1 out of 1 points

A serialized object is _____.

Selected
Answer: ✅
               an object represented as a sequence of bytes used to store the
               object's data in a file

Answers: ✅
               an object represented as a sequence of bytes used to store the
               object's data in a file

               an object in memory that has been recreated from data in a file

               a standard output stream object used to convert objects in code to
               data in a file

               None of the above.

Question 24

1 out of 1 points

A(n) _____ path starts from the directory in which the application began
executing.

Selected Answer: ✅ relative

Answers: absolute

                    ✅ relative

parallel

comparative

Question 25

1 out of 1 points

Which of the following statements is false?

Selected Answer:	✓ All of the above are true.

Answers:

Path method isAbsolute returns a boolean indicating whether a Path represents an absolute path to a file or directory.

Files static method getLastModifiedTime receives a Path and returns a FileTime (package java.nio.file.attribute) indicating when the file was last modified.

Files static method size receives a Path and returns a long representing the number of bytes in the file or directory. For directories, the value returned is platform specific.

✓ All of the above are true.

Question 26

1 out of 1 points

The _____ abstract classes are Unicode character-based streams.

Selected Answer: ✓ Reader and Writer

Answers: ✓ Reader and Writer

BufferedReader and BufferedWriter

CharArrayReader and CharArrayWriter

UnicodeReader and UnicodeWriter

Question 27

1 out of 1 points

Class _____ provides static methods for common file and directory manipulations, including methods for copying files; creating and deleting files and directories; getting information about files and directories; reading the contents of files; getting objects that allow you to manipulate the contents of files and directories; and more.

Selected Answer: ✓ Files

Answers: File

FileAndDirectory

✓ Files

FilesAndDirectories

Question 28

1 out of 1 points

Instance variables that are not to be output with a Serializable object are declared using which keyword?

Selected Answer: ✓ transient

Answers: private

                            ignoreme

                     ✓   transient

                            persistent

Question 29

1 out of 1 points

Records in a sequential file are not usually updated in place. Instead _____.

Selected
Answer: ✓ the entire file is usually rewritten

Answers: the updated data is placed in a "surrogate" file

                 ✓   the entire file is usually rewritten

                       the file is truncated

                       The above statement is false—records in sequential files are
                       usually updated in place.

Question 30

1 out of 1 points

Which of the following statements is *true*?

Selected   ✓
Answer: Class Scanner
                does not provide the ability to reposition to the beginning of the file.

Answers: Class Scanner
                provides the ability to reposition to the beginning of a file with method
                seek.

                Class Scanner
                provides the ability to reposition to the beginning of a file with method
                reposition.

                ✓
                Class Scanner
                does not provide the ability to reposition to the beginning of the file.

If it is necessary to read a sequential file again, the program can simply keep reading—when the end of the file is reached, the Scanner is automatically set to point back to the beginning of the file.

Monday, March 4, 2024 5:51:55 PM CST

← **OK**