Java I/O Streams, Readers & Writers

Questions & Answers

Q 1

Fill in the blank:

Writer is _____ that related stream classes _____.

A. a concrete class, extend

B. an abstract class, extend

C. an interface, extend

D. an interface, implement

Q 1

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Writer is _____ that related stream classes _____.

A. a concrete class, extend

B. an abstract class, extend

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Writer is an abstract class.

Note that InputStream, OutputStream, and Reader are also abstract classes

Q 2

Which methods are classes that implement `java.io.Serializable` required to implement?

A. `deserialize()`

B. `serial()`

C. `serialize()`

D. None of the above

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Which methods are classes that implement `java.io.Serializable` required to implement?

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B. `serial()`

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D. None of the above

Serializable is a marker interface.

It does not contain any method and it is used to provide information about an object at runtime.

Q 3

Which class is used to read information about a directory within the file system?

A. `java.io.File`

B. `java.io.Directories`

C. `java.io.Directory`

D. `java.io.Path`

Q 3

Which class is used to read information about a directory within the file system?

A. `java.io.File`

B. `java.io.Directories`

C. `java.io.Directory`

D. `java.io.Path`

`File` class is used to read both files and directories within a file system.

The other three classes do not exist. Note that there is an NIO.2 interface, `java.nio.file.Path`, used to read both file and path information.

Q 4

Which statement best describes the difference between a `Writer` and an `OutputStream` class?

A. Only one of them can write text or character data.

B. Only one of them has built-in methods for writing character data.

C. Only one of them has a `flush()` method to force the date to be written out.

D. One uses a byte array to process character data more efficiently.

Q 4

Which statement best describes the difference between a `Writer` and an `OutputStream` class?

`OutputStream` is used to write bytes. `Writer` is used to write character data.
Both can write character data, both contain `flush()` method,
Both can be used with a `byte` array.

A. Only one of them can write text or character data.

B. Only one of them has built-in methods for writing character data.

C. Only one of them has a `flush()` method to force the date to be written out.

D. One uses a byte array to process character data more efficiently.

Q 5

Let's say you want to write a lot of text data to a file in an efficient manner. Which two `java.io` stream classes are best to use?

A. `FileOutputStream` and `BufferedOutputStream`

B. `FileOutputWriter` and `FileBufferedWriter`

C. `FileWriter` and `BufferedWriter`

D. `ObjectOutputStream` and `BufferedWriter`

Q 5

Let's say you want to write a lot of text data to a file in an efficient manner. Which two `java.io` stream classes are best to use?

`FileWriter` and `BufferedWriter` can be used in conjunction to write large amounts of text data to a file in an efficient manner.
`FileOutputStream` and `BufferedOutputStream` are used for binary data.
Classes in answer B do not exist. Answer D include classes used for binary.

A. `FileOutputStream` and `BufferedOutputStream`

B. `FileOutputWriter` and `FileBufferedWriter`

C. **`FileWriter` and `BufferedWriter`**

D. `ObjectOutputStream` and `BufferedWriter`