Enthuware Mobile Test Studio

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Standard Tests - Test 2 : 2019-07-30 14:59

Q 83 of 84   ☐ Mark   I/O Fundamentals - Character and Binary Streams   enthuware.ocpjp.v8.2.1905

Given:
```
public static void createFile(String name) throws Exception{
    try (
            OutputStream os = new FileOutputStream(name);  ) {

        //INSERT CODE HERE

        //flush and close the streams that are open
    }

}
```
Which of the following combinations of the lines of code and their outcome when inserted above, are correct?

Answered Incorrectly   You had to select 2 option(s)

☑ `PrintWriter pw = new PrintWriter(os);`
`pw.write(1);`
Size of the file depends on default character encoding.

> PrintWriter's write method writes a single character to the file. The size in bytes of a character depends on the default
> character encoding of the underlying platform.
> For example, if the encoding is UTF-8, only 1 byte will be written and the size of the file will be 1 byte.

☐ `os.write(99);`
A file of size 1 byte will be created.

> Note that the `write(int b)` method of various streams based classes such as FileOutputStream take an int
> parameter but write only the low 8 bits (i.e. 1 byte) of that integer.
>
> DataOutputStream provides methods such as `writeInt, writeChar,` and `writeDouble,` for writing complete value of
> the primitives to a file. So if you want to write an integer to the file, you should use `writeInt(1)` in which case a file of
> size 4 bytes will be created.
> You can read back the stored primitives using methods such as `DataInputSream.readInt().`
>
> (Note: DataInput/DataOutputStream is not mentioned explicitly in the exam objectives.)

☐ ~~ffer~~ `fferedOutputStream(os);`
~~w~~ `w = new PrintWriter(bos);`
A file of size 1 byte will be created.

> PrintWriter's print(int) method actually writes the string produced by String.valueOf(int).
> This string is translated into bytes according to the platform's default character encoding, and these bytes are written
> in using the write(int) method.
>
> Therefore, in this case, if the default character encoding is UTF-8, 2 bytes will be written.

☐
A file of size 4 bytes will be created.

> OutputStream does not provide methods for writing primitives. It writes bytes only.
> Therefore, this will not compile.

```
                = new PrintWriter(os);
```

A file of size 4 bytes will be created.

> PrintWriter does not provide explicit methods for writing primitives (i.e. writeInt, writeBoolean, etc.). It has
> overloaded print methods that take various primitives (i.e. print(int), print(boolean), print(long), and print(char) as
> arguments).
> Therefore, this will not compile.

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