

Java Certified #1

A question lead guide to prepare Java certification



Using Object-Oriented Concepts in Java

```
Given:
public class Test {
  class A {}
  static class B {}
  public static void main(String[] args) {
     // Insert here
Which three of the following are valid statements when inserted into the given program?
→ A a = new A():
→ B b = new B():
   A a = new Test.A():
→ B b = new Test.B():
→ A a = new Test().new A();
     B b = new Test().new B();
```

answer

A a = new A(); is wrong since class A is a non-static member of the Test class - it cannot be directly referenced from a static context.

A a = new Test.A(); is wrong since class A is a non-static member - it cannot be associated with the Test class itself.

B b = new Test().new B(); is incorrect as class B is a static member of the Test class. It must be associated with the containing class rather than one of its instances.



Using Java I/O API

Which of the following isn't a correct way to write a string to a file?

```
→ try(FileWriter writer = new FileWriter("file.txt")){
    writer.write("Hello");
}

→ try (PrintWriter printWriter = new PrintWriter("file.txt")) {
    printWriter.printf("Hello %s", "James");
}

→ try (BufferedWriter writer = new BufferedWriter("file.txt")) {
    writer.write("Hello");
}
```

```
try ( BufferedWriter writer = new BufferedWriter( "file.txt" ) ) {
 writer.write("Hello");
A BufferedWriter object must wrap a Writer and cannot be
constructed with a String argument. Consequently, the code
fragment in option
```

```
try ( BufferedWriter writer = new BufferedWriter( "file.txt" ) ) {
    writer.write( "Hello" );
}
```

fails to compile.



Packaging and Deploying Java Code

Which one of the following are correct about the Java module system?

- → If a request is made to load a type whose package is not defined in any known module, then the module system will attempt to load it from the classpath.
- → The unnamed module can only access packages defined in the unnamed module.
- → We must add a module descriptor to make an application developed using a Java version prior to SE9 running on Java 21.

If a request is made to load a type whose package is not defined in any known module, then the module system will attempt to load it from the classpath.

- If a request is made to load a type whose package isn't in any known (named) module, JPMS will try the classpath (i.e., the unnamed module) and load it from there if available.
- X "The unnamed module can only access packages defined in the unnamed module." Incorrect. The unnamed module can read all named modules and access their exported packages.
- **X** "We must add a module descriptor to run pre-SE9 apps on Java 21." Nope. You can still run on the classpath without any module-info.java.



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