fc957400.JaSE8Prl.SG.2.11	
How many case statements can a single switch statement have?	Barring any VM limits, there is no limit to the number of case statements that a switch statement can have, provided the constant value of each case statement is unique.
2 fc957400.JaSE8Prl.SG.2.23	
Write code to print the number of elements in an ArrayList named abc.	System.out.println(abc.size());
3 fc957400.JaSE8Prl.SG.2.50	
True or false: An abstract class that implements an interface is not required to implement any of the interface's abstract methods.	True.
4 fc957400.JaSE8Prl.SG.2.36	
Write a static import to import the static LENGTH variable of a.b.C.	<pre>import static a.b.C.LENGTH; Orimport static a.b.C.*;</pre>
5 fc957400.JaSE8Prl.SG.1.06	
Which variables require the programmer to initialize them before use: Class, Local or Instance?	Local
6 fc957400.JaSE8Prl.SG.2.02	
What is the most common signature of a main() method?	<pre>public static void main(String[] args)</pre>

What modifier(s) do all members of an interface implicitly have?	public
8 c957400.JaSE8Prl.SG.1.40	
What code can call the method void print() {}?	Code in the same package.
c957400.JaSE8Prl.SG.1.63	
If a try statement has both a catch block and a finally block, which order do they run in if an exception is not thrown?	try followed by finally
.0 c957400.JaSE8Prl.SG.1.31	
<pre>How many objects are created in String[] s = new String[5];?</pre>	Just one. The references are all set to null by default.
.11 c957400.JaSE8Prl.SG.2.08	
Are instance initializers run before or after the constructor?	Before. Instance initializer are blocks of code that are run before the constructor.
.2 c957400.JaSE8Prl.SG.2.21	
How many arrays are created in this code and how many dimensions is each one? int[] b, c[];	Two. b is a one-dimensional array and c is a two-dimensional array.

What order do the class declarations, import statements, and package declaration go within a file?	The package declaration comes first, followed by imports, followed by the class declaration.
14 fc957400.JaSE8Prl.SG.1.07	
Which variables are in scope for the entire program: Class, Local or Instance?	Class
15 fc957400.JaSE8Prl.SG.1.27	
What is in the StringBuilder created by new StringBuilder("surprise").insert(3, "!!")?	sur!!prise
16 fc957400.JaSE8Prl.SG.2.15	
True or false: The collection in a for loop must be an array.	False. It can be an array or an object that implements java.lang.Iterable.
17 fc957400.JaSE8Prl.SG.1.52	
What keyword would be used for a class that uses an interface?	implements
18 fc957400.JaSE8Prl.SG.1.36	
What character separates parameters in a parameter list?	Comma (,)

What is wrong with public void method(String s, int b) {}?	A vararg parameter must be the last parameter in a parameter list and only one is allowed per method.
0 c957400.JaSE8Prl.SG.1.15	
True or false: The break or continue statement requires a semicolon when used without optional labels.	True
:1 c957400.JaSE8Prl.SG.2.32	
How do you create a Period of a month and a day?	Period.of(0, 1, 1);
c2 c957400.JaSE8Prl.SG.1.20	
Which are immutable: String, StringBuilder, StringBuffer, arrays, or ArrayList?	Strings are the only immutable objects in the list.
:3 c957400.JaSE8Prl.SG.2.38	
Which of the following may be different in an overloaded method: method name, return type, access modifier, exception list?	return type, access modifier, and exception list may vary. If the method name was different, it would be a different method rather than an overloaded method.
r4 c957400.JaSE8Prl.SG.1.10	
Which of the following classes do import a.b.* actually import: a.A, a.b.B, a.b.c.C?	Only a.b.B. The import wildcard only matches in that package directly, not subpackages.

Define a covariant return type.	When a method in a child class overrides a method in a parent class, the return type is permitted to be a subclass of the return type of the method defined in the parent class.
26 fc957400.JaSE8Prl.SG.2.26	
What method do you call on an ArrayList to replace the element at a given index with a different one?	set()
27 fc957400.JaSE8Prl.SG.1.59	
When do you use the throw and throws keywords?	throw is used when throwing an exception. throws is used in a method declaration.
28	
fc957400.JaSE8Prl.SG.2.63	
Which of the following exceptions are typically thrown by the programmer (and not the JVM)? ArrayIndexOutOfBoundsException, ClassCastException, IllegalArgumentException, NumberFormatException	IllegalArgumentException and NumberFormatException
29 fc957400.JaSE8Prl.SG.2.01	
The bytecode for a class named Hello in the a.b.c package must appear in what directory structure?	The file Hello. class must be in the subdirectory a/b/c.
30 fc957400.JaSE8Prl.SG.1.32	
Write a line of code to print the number of elements in int abc[] = new int[9];.	System.out.println(abc.length);

When is a return statement not required in a method?	When the return type is void.
32	
c957400.JaSE8Prl.SG.2.53	
How would you override a private method in Java?	You cannot override a private method, although you can replace it by hiding it.
33	
c957400.JaSE8Prl.SG.1.05	
What characters may a variable name contain?	A letter, number, dollar sign or underscore
34 c957400.JaSE8Prl.SG.2.14	
True or false: A case must be a constant expression.	True
25	
c957400.JaSE8Prl.SG.1.48	
What are the four types of members an interface may include?	Abstract methods, default methods, static methods, and static final
	variables
36	
c957400.JaSE8Prl.SG.1.24	
<pre>What does this code print? String s = "hmm"; s.substring(1);</pre>	hmm. The result of the substring is not stored anywhere and strings are immutable so s itself is not saved.

When do you need to explicitly call super() in your constructor?	When the parent class does not define a no-argument constructor.
88 c957400.JaSE8Prl.SG.1.08	
Which variables may have a scope smaller than a method: Class, Local or Instance?	Local
99 c957400.JaSE8Prl.SG.2.07	
Is this a constructor or a method? public void MyClass() { }	It is a method (not a constructor) because it has a return type.
10 c957400.JaSE8Prl.SG.1.53	
What keyword would be used for a class that extends an interface?	Trick question! A class cannot extend an interface.
l1 c957400.JaSE8Prl.SG.1.19	
What does System.out.println(1 + 2 + "3" + 4 + 5); print?	3345. It is evaluated as 1 + 2 becomes 3, then 3 + "3" becomes "33", then "33" + 4 becomes "334", and finally "334" + 5 becomes "3345". The quotes aren't printed.
12 c957400.JaSE8Prl.SG.1.54	
True or false: The first line of every constructor is a call to the parent constructor via the super() command.	False. A method may instead call this() as the first line of the constructor instead of super(), although it will eventually resolve to a constructor that calls super() as its first line.

/3

True or false: An instance method is allowed to reference a static variable.	True.
44 fc957400.JaSE8Prl.SG.2.05	
What is the name of the method that guarantees the garbage collector will run?	Trick question! System.gc() suggests that the garbage collector run but does not guarantee it.
45 fc957400.JaSE8Prl.SG.1.44	
When following JavaBean naming conventions, what would be the accessor method for the property String s;?	<pre>public String getS() { return s; }</pre>
46 fc957400.JaSE8Prl.SG.2.17	
A statement within a loop transfers flow of control to the loop continuation point of the loop.	Continue
47 F077400 1-570D-1 55 1 45	
fc957400.JaSE8PrI.SG.1.46 How do you call this method from another class? public class StaticMethod { public static void callMe() { } }	StaticMethod.callMe();
48 fc957400.JaSE8Prl.SG.1.57	
Is a class that extends RuntimeException a checked or unchecked exception?	Unchecked

What interface does Java provide for working with lambdas that declares a single method that returns a boolean?	Predicate
50 c957400.JaSE8Prl.SG.2.35	
True or false: A static method is allowed to reference an instance variable.	False (except through a reference to a class instance)
51 c957400.JaSE8Prl.SG.1.51	
What modifier(s) do all variables of an interface implicitly have?	public, static, final
52 c957400.JaSE8Prl.SG.1.21	
Which are thread-safe: String, StringBuilder, StringBuffer, arrays, or ArrayList?	String is thread-safe because it is immutable and StringBuffer is also thread-safe.
i3 c957400.JaSE8Prl.SG.2.47	
What type would be used for a method parameter if it needed to be able to support any variable?	java.lang.Object
64 c957400.JaSE8Prl.SG.2.37	
True or false: Overloaded methods have the same method signatures.	False. The parameter lists must be different.

What are the eight primitive types in Java?	byte, short, int, long, float, double, char, and boolean
56 fc957400.JaSE8Prl.SG.1.39	
What code can call private methods?	Code in the same class.
57 fc957400.JaSE8Prl.SG.1.33	
<pre>Write a line of code to print both the first and last index of this array: boolean[] b = {true, false};</pre>	<pre>System.out.println(b[0] + " " + b[b.length - 1]); or System.out.println(b[0] + " " + b[1);</pre>
58	
c957400.JaSE8Prl.SG.2.06	Falsa Tha st. 31 mathed and had involved at most and
True or false: The finalize method of an Object may be invoked multiple times.	False. The finalize method can be invoked at most once.
59 fc957400.JaSE8Prl.SG.2.45	
Which characters in this statement are optional? (a) - '{ return true; }	The parentheses, return statement, and semicolon. It could have been a-²true.
60 fc957400.JaSE8Prl.SG.2.49	
Why can an abstract method not be marked final?	By abstract, the method cannot be instantiated directly and must be implemented by a subclass. By marking the method final, no subclass can implement it. Therefore, no concrete subclass could be created that includes the method.

If the try block, catch block, and finally block all throw an exception, which gets thrown to the caller?	The one from the finally block
62 c957400.JaSE8Prl.SG.2.16	
Astatement transfers flow of control out of an enclosing statement.	Break
53 c957400.JaSE8Prl.SG.2.27	
What is the process called when Java automatically converts an int to an Integer?	Autoboxing
64 c957400.JaSE8Prl.SG.1.60	
A try statement is allowed to have how many finally blocks?	Zero or one
55 c957400.JaSE8Prl.SG.1.12	
Where in a switch statement does the default block need to go?	The default block can appear anywhere in the switch statement, including the beginning, middle, and end.
66 c957400.JaSE8Prl.SG.2.41	
True or false: When passing an ArrayList list to a method, calling list = new ArrayList() from the method affects the caller.	False. Parameters are passed by reference so reassignments do not affect the caller.

What is 12 % 5 - 1?	1
68 6-057400 Jaccopal CC 1 40	
fc957400.JaSE8Prl.SG.1.49	
True or false: A reference to a class may be automatically used as a reference to a subclass without an explicit cast.	False. A reference to a class may be automatically used as a reference to a superclass without an explicit cast.
69 fc957400.JaSE8Prl.SG.2.51	
What is one reason default methods were added to interfaces in Java 8?	To improve backward compatibility. Interface developers can add a new method to an interface without requiring developers using the interface to recompile their code.
70 fc957400.JaSE8Prl.SG.2.39	
Which order does Java use when looking for matches in overloaded methods: autoboxing, exact match, widening primitives, varargs.	exact match, widening primitives, autoboxing, varargs.
71 fc957400.JaSE8Prl.SG.2.61	
True or false: If an interface has the method void run() throws Exception;, the implementing class is allowed to have the method public void run() throws IOException { }.	True; more specific exceptions are allowed to be declared.
72 fc957400.JaSE8Prl.SG.1.58	
True or false: A program should handle or declare <code>java.lang.Error</code> .	False. A program must handle or declare checked exceptions. It should not handle or declare <code>java.lang.Error</code> .

If you have a constructor that calls another constructor in the same class, which should be used first, this() or super()?	Only this() would be used in the constructor. The second constructor would call the parent constructor itself.
74 fc957400.JaSE8Prl.SG.2.29	
What are the three key local date and time classes and what do they represent?	LocalDate is just the date without time or time zone. LocalTime is just the time without date or time zone. LocalDateTime is the date and time without time zone.
75 fc957400.JaSE8Prl.SG.2.59	
True or false: If a try statement has catch blocks for IllegalArgumentException and RuntimeException, the catch blocks can be in either order.	False. The more general catch blocks must appear below the more specific ones.
76 fc957400.JaSE8Prl.SG.2.28	
What package are the new date/time classes in?	java.time
77 fc957400.JaSE8Prl.SG.1.62	
If a try statement has both a catch block and a finally block, which order do they run in if an exception is thrown?	try followed by catch followed by finally
78 fc957400.JaSE8Prl.SG.1.45	
When following JavaBean naming conventions, what would be the accessor method for the property boolean b;?	<pre>public boolean isB() { return b; }</pre>

Which of the following StringBuilder methods can be chained: append, delete, insert?	All three can be chained because they returned a StringBuilder.
0 c957400.JaSE8Prl.SG.2.62	
True or false: If an interface has the method void run() throws IOException;, the implementing class is allowed to have the method public void run() throws Exception { }.	False; broader exceptions are not allowed.
81 c957400.JaSE8Prl.SG.1.30	
is used to reliably check if two Strings are the same.	equals()
s2 c957400.JaSE8Prl.SG.1.17	
How do you negate a boolean value?	You cannot negate a boolean value, at least not numerically using the minus operator –. You can invert the boolean value using the logical complement operator !.
c957400.JaSE8Prl.SG.2.40	
True or false: When passing an ArrayList list to a method, calls to list.add() from the method are reflected in the caller.	True. The caller points to the same object as the method parameter.
14 c957400.JaSE8Prl.SG.2.46	
Which characters in this statement are optional? () -' { System.out.println(); return true; }	None. The parentheses are required when there aren't any parameters. The braces are required because there are multiple statements.

True or false: If a parent class does not include a no-argument constructor, the child class cannot declare one.	False.
36 c957400.JaSE8Prl.SG.2.24	
What is the '' called in List'Integer'a = new ArrayList''();?	The diamond operator.
37 c957400.JaSE8Prl.SG.2.25	
What method do you call on an ArrayList to insert an element after all current elements?	add()
38	
c957400.JaSE8Prl.SG.1.41 What code can read protected String s?	Code in the same package or code that subclasses the class containing that instance variable.
39 ic957400.JaSE8Prl.SG.1.13	
As of Java 8, which data types are permitted as the decision variable for a switch statement?	byte, short, char, int, Enum, String, as well as Byte, Short, Character, and Integer
90 cg57400.JaSE8Prl.SG.1.03	
Which of the following variables can null be assigned to? String s; Object o; int num; boolean b	String s and Object o can be assigned null because they are objects. int and boolean are primitives and so cannot be assigned null.

Which of the following StringBuilder methods can be chained: reverse, substring, toString?	Only reverse can be chained because it returns a StringBuilder. The other two return a String.
92 fc957400.JaSE8Prl.SG.2.48	
What is the difference between overloading, overriding, and hiding a method?	Overloaded methods share the same name but different signatures and have no polymorphic relationship. Overridden methods share the same signature and are replaced at runtime in all places it is defined. Hidden methods are share the same signature but are only replaced in the subclasses for which they are defined.
93 fc957400.JaSE8Prl.SG.2.13	
True or false: (5 ^c = 7) (2 ^c θ)	True
94 fc957400.JaSE8Prl.SG.1.47	
True or false: An interface is a type of abstract class.	False. While an interface shares many properties of an abstract class, it is not actually an abstract class.
95 F057400 I-S50D-LSC 1.56	
fc957400.JaSE8Prl.SG.1.56 True or false: For inherited methods of the parent class, both super and this can be used interchangeably within a child class to access the method, assuming the child class does not override it.	True
96 fc957400.JaSE8Prl.SG.2.12	
Why should you be careful when evaluating the right-hand side of expressions that include & and ?	The right-hand side of short-circuit operators will not be evaluated if the value can be determined solely from the left-hand side.

The bodies of which of the following statements will be executed at least once even if the boolean expression initially evaluates to false: while, do-while, for	do-while
08 c957400.JaSE8Prl.SG.1.16	
If you want the new value of an increment operator to be used in an expression after it is updated, which operator would you use?	The pre-increment operator, as in ++x
99 c957400.JaSE8Prl.SG.2.31	
How do you add an hour to a LocalTime object?	LocalTime.plusHours(1);
Order the following operators in decreasing order of precedence: ==*	*==
List the seven parts of a method declaration in order (including what exceptions are thrown).	access modifiers, optional specifiers, return type, method name, parameter list, exception clause, method body
.02 c957400.JaSE8Prl.SG.2.60	
True or false: If an interface has the method void run() throws Exception;, the implementing class is allowed to have the method public void run() { }.	True; fewer exceptions are allowed to be declared.

In an encapsulated class, instance variables are of scope and getters/setters are of scope.	private, public
104 fc957400.JaSE8Prl.SG.1.35	
List all the access modifiers in Java.	public, private, protected, and default. The first three are keywords in Java. The last is specified with the lack of a keyword.
105 fc957400.JaSE8Prl.SG.2.22	
What is returned by the following search? int[] numbers = {2,4,6,8}; Arrays.binarySearch(numbers, 5)	-3. The number isn't found but would be inserted at index 2 to preserve sort order. Remember that we negate that number and subtract 1 to get the answer.
106	
fc957400.JaSE8Prl.SG.1.09 What packages are imported by default?	Only the package java. lang is imported by default. It contains many classes.
107 fc957400.JaSE8Prl.SG.2.30	
How do you create an object with the current date and time?	LocalDateTime.now();
108 fc957400.JaSE8Prl.SG.2.33	
What is the class used for formatting a date?	DateTimeFormatter

Which of the following exceptions are checked exceptions? ArrayIndexOutOfBoundsException, ClassCastException, ExceptionInInitializerError, FileNotFoundException, IOException	FileNotFoundException and IOException
.10 c957400.JaSE8Prl.SG.1.43	
When following JavaBean naming conventions, what would be the mutator method for the property String s;?	<pre>public void setS(String s) { this.s = s; }</pre>
.11 c957400.JaSE8Prl.SG.2.43	
How do you call one constructor from another in the same class?	this()
.12 c957400.JaSE8Prl.SG.1.61	
A regular try statement (not a try-with-resources) statement is allowed to have how many catch blocks?	Zero or more (zero if it has a finally block)
.13 c957400.JaSE8Prl.SG.1.14	
Are curly brackets { } required in if-then statements?	No, they are optional if there is only one statement in the branch of the if statement.
.14 c957400.JaSE8Prl.SG.1.29	
is used when comparing variables to see if they point to the same object.	==

Why is StringBuilder better than StringBuffer?	StringBuilder is faster because it doesn't need to be thread-safe.
116	
c957400.JaSE8Prl.SG.2.20	
Write a line of code to print the number of elements passed into this method: public void method(double d)	System.out.println(d.length);
117 cg57400.JaSE8Prl.SG.2.03	
An instance of a class is called a(n)	0bject
l18 c957400.JaSE8Prl.SG.2.42	
True or false: A default constructor is always provided in a class	False. A default constructor is only provided if none are coded.
119	
c957400.JaSE8Prl.SG.2.18	Part and the state of the state
What is the command line used to compile the Java class Wolf.java and what file does it generate?	Run: javac Wolf.java (and it generates Wolf.class)
120 c957400.JaSE8Prl.SG.1.04	
What characters can a variable name begin with?	A letter, dollar sign, or underscore

What are the default values for these instance variables: String s; int num; boolean b; double d?	s = null; num = 0; b = false; d = 0.0
122 fc957400.JaSE8Prl.SG.1.22	
Which are final: String, StringBuilder, StringBuffer, arrays, or ArrayList?	String is the only class in that list that is final.
123 fc957400.JaSE8Prl.SG.2.10	
How many default statements can a single switch statement have?	A switch statement may have at most one default statement.
124 fc957400.JaSE8Prl.SG.2.19	
What is the command line to run the program contained in Wolf.class?	java Wolf
125 fc957400.JaSE8Prl.SG.1.23	
What does this code print? String s = "hmm"; System. out.println(s.substring(1, 2));.	m. The substring starts with the character at index 1 (m) and ends with the character before index 2.
126 fc957400.JaSE8Prl.SG.1.55	
What is the difference between super() and super?	The super() command calls the constructor of the parent class and is used in the first line of every child constructor, whereas super is a keyword used to reference a member of the parent class.

True or false: All methods in Java are virtual methods.	False. Only nonfinal, nonstatic, and nonprivate methods are virtual in Java.