Name:		Class:	Date:
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Indicate the answer	r choice that best compl	letes the statement or answers the q	uestion.
a.ArrayList	em at any point to a(n) b. Array Array d. array	, whose size expands automatically	to accommodate the new item.
0	u. u.iuy		
2. If a class's only cocreate.	enstructor requires an argu	ument, you must provide an argument	for every of the class that you
a. parameter	b. type		
c. object	d. method		
different parameter li	ists. b. Overloading	verse meanings, or writing multiple me	thods with the same name but with
a. arguments	e in a call to a method are b. instance var rations d. headers		
a. indefinite	by the user is a type of b. definite blled d. incrementing	loop.	
a. sub	b. this	method in a derived class to access an	overridden method in a base class.
c. protected	a. super		
interface's methods, a. abstract b.	-	ements clause to implement an interfated indicates that you must declare you	
a.new String	g = Hello	nd initializes a String object? b. String greeting == "H d. String new = "Hello"	ello";
a. Character	or storing and manipulation b. String iable d. StringBu	ng changeable data that is composed o	f multiple characters.
control variable. a. dowhile	b. inner	h an array without specifying the starti	ng and ending points for the loop
c. enhanced for	d. enhanced while		

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11. The ArrayList class method a a. size b. capacity c. length d. rows	returns the current ArrayList size.	
Indicate whether the statement is true	or false.	
12. System software is used for tasks sucha. Trueb. False	as word processing, calculations and pla	rying games.
13. If an object's methods are well written and the user must simply understand the in a. True b. False		
14. A Java identifier can contain only lettera. Trueb. False	ers, digits, ampersands, or number signs.	
Indicate the answer choice that best co	ompletes the statement or answers the	question.
15. The length contains the numb a. box b. field c. area d. block	er of elements in the array.	
16. When you create an array of objects, e a. null b. '\u0000' c. true d. false	each reference is assigned the value	
Indicate whether the statement is true	or false.	
17. When you issue the command to comp messages. You will first need to run the cla. True b. False		mpiler does not produce any error
18. Logic errors are easily identified wherea. Trueb. False	a program is compiled.	
Indicate the answer choice that best co	ompletes the statement or answers the	question.
19. System.out.println("Your r	name is " + yourName);	
The above statement is an example of a. concatenation b. referencing	_, which is used to join Strings.	

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c. parsing	d. buffering		
Indicate whether th	ne statement is true o	or false.	
20. Although not a re uppercase letters to i a. True b. False		standard that class identifiers begin with	an uppercase letter and use other
21. A compiler ignor a. True b. False	res whitespace (that is,	any combination of nonprinting charac	eters) between words and lines.
22. Dots (or periods) a. True b. False	in a Java statement ar	re used to separate the names of the com	iponents that make up the statement.
Indicate the answe	r choice that best cor	mpletes the statement or answers the	e question.
a.size b.c	nsional array, the capacity Length	_ field holds the number of rows in the	array.
Indicate whether th	ne statement is true o	or false.	
24. Using the void method is called. a. True b. False	keyword in the main	() method header indicates that a value	will be returned by the main ()
Indicate the answer	r choice that best cor	mpletes the statement or answers the	e question.
a. Java b.	en in is the most be machine language C	basic circuitry-level language.	
26. Locating and rep a. interpreting c. debugging	airing all syntax errors b. compiling d. executing	s is part of the process of a program	m.
27 are also cal "method."	led modules, methods,	, functions, and subroutines. Java progra	ammers most frequently use the term
a. Procedures c. Classes	b. Callsd. Applications		
28. The ArrayLis	t class method re	etrieves an item from a specified location	on in an ArrayList.

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a.extract b.get		
c.peek d.retrieve		
29. A(n) class is a class that you c a. abstract b. inheritance c. parent d. final	reate only to extend from.	
30 refers to the hiding of data and a. Instance b. Inheritance c. Passed d. Encapsulation	I methods within an object.	
31 describes the feature of langual based on the context. a. Polymorphism b. Architecture c. Source code d. Insulation	ages that allows the same word to be interrally neutral	preted correctly in different situations
32. Individual array elements area. sorted b. passed c. received d. stored	by value when a copy of the value is mad	e and used within the receiving method.
33. A(n) defines the circumstance use a class.	s under which a class can be accessed and	d the other classes that have the right to
a. identifier b. access specifier		
c. parameter d. Pascal casing		
34. In Java, the reserved keywordexist.	means that a method is accessible and us	able even though no objects of the class
a.active b.undefined		
c. static d. void		
35. Line comments start with		
a. a forward slash and an asterisk	b. two forward slashes	
c. a forward slash and two asterisks	d. a percent sign	
36. After a successful compile, you can a. Java Virtual Machine (JVM) c. text editor	run the class file on any computer that heb. Web browser d. DOS	as a
c. text editor	a. <i>B</i> b b	
	le arguments, the arguments are always s	separated with
a. commasb. periodsc. forward slashesd. brackets		
c. forward slashes d. brackets		
	anguage rules, it refuses to translate the c	elass to
a. an application b. a logic erro	r	
c. machine code d. Java		

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	ses to divide your source code into meaningfing the code when the end of the file was enc	
40. A is an error not detected untilexecuting. a. syntax error b. run-time error c. package d. Java API	il the program asks the computer to do some	ething wrong, or even illegal, while
41. It is best to use the available t a. most complex b. simplest c. best d. latest	text editor when writing Java programs.	
42. It is a tradition among programmer a. Hi, your name! b. Hello, c. My first program! d. Hello,		guage produces "" as its output.
43. When you run a Java application us a. class b. static c. java d. output	sing the command, do not add the .cl	ass extension to the filename.
<pre>44. { public static void main { System.out.println(" } }</pre>	n(String[] args) *First Java application");	
Given the above code, which item iden a. public b. static c. void d. First	ntifies the access specifier?	
45. public class First {		
<pre>public static void main { System.out.println(" } }</pre>	n(String[] args) Prirst Java application");	
Given the above code, which item iden a. public b. static c. void d. First	ntifies the name of the class?	
46. public class First		
public static void ma	ain(String[] args)	

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{	stem.out.println("First Java application");	
	e code, which item identifies the method's return type?	
a. public c. void	b. static d. println	
47. publi	c class First	
•	c static void main(String[] args)	
	stem.out.println("First Java application");	
Given the above a. public c. void	e code, which item identifies that the method will work without inst b. static d. println	tantiating an object of the class?
Enter the appr	copriate word(s) to complete the statement.	
48. In programmight vary.	ming, named computer memory locations are called	because they hold values tha
49	comments are a special case of block comments that	are used to generate documentation.
	import statement when you want to access a built-in Java class th	nat is contained in a group of classes
51. A(n)produces incorr	error occurs when the syntax of the program is crect results when you execute it.	correct and the program compiles but
52. The prewritten Java	is also called the Java class library; it contains in class, including lists of all the methods you can use with the classe	
a. literal string	m with the correct statement below.	
-	ogramming languages	
c. dialog boxd. syntax		
e. whitespace		
f. compiler		
g. attributes		

h. Machine language

i. Java virtual machine (JVM)

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- 53. Allow you to assign intuitive names to areas of computer memory
- 54. The rules for the programming language
- 55. Translates an entire program before carrying out the statement
- 56. A low-level programming language
- 57. The characteristics that define an object
- 58. Hypothetical computer used to run a Java program
- 59. Series of characters that will appear in output exactly as entered
- 60. Any combination of nonprinting characters
- 61. A GUI object resembling a window in which you can place messages you want to display
- 62. Describe the components (objects and classes) that are used in the statement System.out.println().
- 63. What happens after a programmer successfully compiles a Java program named "First.java"?
- 64. Provide examples of logic errors. How do programmers minimize logic errors in their code?
- 65. Explain the purpose of arguments and why it is necessary to pass arguments to a method.
- 66. Briefly describe the elements of the main() method:

```
public static void main(String[] args)
{
Java code...
```

67. Once an application is written and saved, the Java class must be compiled. Describe what two procedures must occur in order to view the output of the application.

```
68.public class FindMyErrors
{
   public static void main(String[] args)
   {
       System.out.println("My application with errors)
   }
```

Given the above code, identify three separate syntax errors.

Name:	Class:	Date:
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Answer Key		
1. a		
2. c		
3. b		
4. a		
5. a		
6. d		
7. a		
8. c		
9. d		
10. c		
11. a		
12. False		
13. True		
14. False		
15. b		
16. a		
17. False		
18. False		
19. a		
20. True		
21. True		
22. True		
23. d		
24. False		
25. b		

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26. c		
27. a		
28. b		
29. a		
30. d		
31. a		
32. b		
33. b		
34. c		
35. b		
36. a		
37. a		
38. c		
39. d		
40. b		
41. b		
42. b		
43. c		
44. a		
45. d		
46. c		
47. b		
48. variables		
49. Javadoc		
50. package		
51. logic		

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52. Java API		
53. b		
54. d		
55. f		
56. h		
57. g		
58. i		
59. a		
60. e		
61. c		
62 Within the statement System out println("First Java application"); the method t	o which you are pagging "First Ioyo

62. Within the statement System.out.println("First Java application");, the method to which you are passing "First Java application" is named println(). The Java methods println() and print() both produce output. With println(), after the output is displayed, the insertion point moves to the following line so that subsequent output appears on a new line. With print(), however, the insertion point does not advance to a new line, so subsequent output appears at the end of the current line. Within the statement System.out.println("First Java application");, out is an object that is a property of the System class that refers to the standard output device for a system, normally the monitor. The out object itself is an instance of the PrintStream class, which contains several methods, including println().

Within the statement System.out.println("First Java application");, System is a class. Therefore, System defines attributes for System objects, just as the Dog class defines the attributes for Dog objects. One of the System attributes is out. The dots (periods) in System.out.println() are used to separate the names of the components in the statement.

- 63. If you receive no error messages after compiling the code in a file named First.java, the application compiled successfully. In that case, a file named First.class is created and saved in the same folder as the text file that holds the source code. After a successful compile, you can execute the program (run the class file) on any computer that has a Java Virtual Machine (JVM).
- 64. Examples of logic errors include multiplying two values when you meant to add, printing one copy of a report when you meant to print five, or forgetting to produce a total at the end of a business report when a user has requested one. Errors of this type must be detected by carefully examining the program output. It is the responsibility of the program author to test programs and find any logic errors. Good programming practices can help to minimize errors.
- 65. Arguments are pieces of information that are sent to a method. The act of sending arguments to a method is called passing arguments to the method. You pass methods to arguments so they know what information to work with.

66.

In the method header public static void main(String[] args), the word public is an access specifier, just as it is when you use it to define the First class.

In Java, the reserved keyword static means that a method is accessible and usable even though no objects of the class exist.

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The keyword void used in the main() method header indicates that the main() method does not return any value when it is called.

The name of the method is main().

In the method header public static void main(String[] args), the contents between the parentheses, String[] args, represent the type of argument that can be passed to the main() method.

67.

- 1. You must compile the class you wrote (called the source code) into bytecode.
- 2. You must use the Java interpreter to translate the bytecode into executable statements.

68. There is a semicolon missing at the end of the println statement that will produce the output.

There is a missing curly brace. Curly braces must be open and closing pairs.

There are missing quotation marks in the println statement that will produce the output.