

Quizlet

SOPH S1: AP Computer Science Quizzes

307 terms

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Which statement best describes a computer program?	A program is a sequence of instructions and decisions that the computer carries out.	☆
What does CPU stand for?	Central Processing Unit	☆
What is a Java library?	A collection of code that has been programmed and translated by someone else, ready for you to use in your program.	☆
What are the electrical lines called that interconnect the CPU, RAM, and the electronics controlling the hard disk and other devices?	bus	☆
What is the term used to describe an error detected by the compiler that is a violation of the programming language rules?	compile-time error	☆
For a program to be executed, where must it reside so that the CPU can read its instructions?	memory	☆
In Java, every statement must end with this symbol.	;	☆
What is the name of the file that contains the Java source code for the class	BankAccount.java	☆
What term is used to refer to text in a program that helps human readers understand the program?	comments	☆
What does a class file contain?	Instructions for the Java Virtual Machine.	☆

Which part of a computer contains the CPU, the RAM, and connectors to peripheral devices?	motherboard	☆
What term is used to refer to a sequence of characters enclosed in quotation marks?	string	☆
The input to a method is called a(n) _____.	parameter	☆
What is the name of the = operator in Java?	assignment	☆
What is the name of the type that denotes a string of characters?	String	☆
What is a storage location in the computer's memory called that has a type, name, and contents?	variable	☆
Which operator constructs object instances?	new	☆
What is an object?	An entity in your program that is manipulated by calling methods.	☆
What terminology describes a method that returns information about its implicit parameter and does not change the parameter's internal data?	accessor	☆
Which of the following is the best choice for a variable identifier that will store a name?	name	☆
Which statement stores an integer value in a variable?	count = 5;	☆
What terminology describes a	mutator	☆

method that modifies the internal data of its implicit parameter?		
Input to a method enclosed in parentheses after the method name is known as _____.	explicit parameters	☆
Which of the following statements about classes is correct?	A class declares the methods that you can apply to its objects.	☆
By convention, variables begin with a(n) _____.	lowercase letter	☆
What is the name of the type that denotes whole numbers?	int	☆
What is the name of the type that denotes floating-point numbers that can have fractional parts?	double	☆
Which term is used to describe the name of a variable, method, or class?	identifier	☆
Which of the following declares a variable that will store a count with an integer value?	int count;	☆
Which statement about identifiers is correct?	Identifiers can be made up of letters, digits, and the underscore (<code>_</code>) character.	☆
By convention, classes begin with a(n) _____.	uppercase letter	☆
What do object variables store?	references	☆
Which of the following declares a variable that will store a count with an integer value?	int count;	☆
What do object variables store?	references	☆

Which of the following declares a variable that will store a welcome message?	String welcome;	☆
What is the term used to describe an error causing a program to take an action that the programmer did not intend?	run-time error	☆
What is the declared return type for a method that does not have a return value?	void	☆
What does API stand for?	Application Programming Interface	☆
To use a class in another package you need to _____ it.	import	☆
What is the term used to specify the remote control for a class, indicating what you can do with the objects that belong to the class?	public interface	☆
Which of the following represents a method call to a method with a void return type?	System.out.println()	☆
What is a storage location in the computer's memory called that has a type, name, and contents?	variable	☆
Which method would you use to obtain the string	replace	☆
Assume that the variable	count = 6;	☆
A set of values and the operations that can be carried out with those values are called _____.	types	☆
Which of the following	Every object belongs to a class.	☆

statements about objects is correct?		
Which statement declares and stores an integer value in a variable?	<code>int count = 5;</code>	☆
Which of the following statements about test programs is true?	Test programs verify that methods have been implemented correctly.	☆
Which of the following is the best choice for a variable identifier that will store a name?	<code>name</code>	☆
Which of the following represents a method declaration with a void return type?	<code>public void setValue(int value) { ... };</code>	☆
What is a Java library?	A collection of code that has been programmed and translated by someone else, ready for you to use in your program.	☆
What is the type of an object?	<code>class</code>	☆
The output of a method is called its _____ value.	<code>return</code>	☆
Which class is part of the	<code>String</code>	☆
Which method call represents the invocation of a method that does not have explicit parameters?	<code>greeting.length()</code>	☆
Which term is used to describe the name of a variable, method, or class?	<code>identifier</code>	☆
Which of the following statements about methods is correct?	A method is a sequence of instructions that accesses the data of an object.	☆

What is the purpose of the following algorithm?	To find the highest among 10 numbers	☆
Which method call is incorrect?	<code>greeting.println()</code>	☆
Evaluate the given pseudocode to calculate the weighted score for a student	87.80	☆
Evaluate the given pseudocode to calculate the efficiency of a vehicle's fuel consumption using the following test values	20	☆
What is the name of the type that denotes floating-point numbers that can have fractional parts?	double	☆
Which statement is true about the compilation process?	The compiler will stop compiling when it finds the first error.	☆
Which one of the following is NOT a function of a CPU?	Querying a database	☆
Parameters to methods are enclosed by these symbols.	<code>()</code>	☆
What term is used to refer to a sequence of steps for solving a problem that is unambiguous, executable, and terminating?	algorithm	☆
What translates high-level descriptions into machine code?	compiler	☆
What term is used to refer to the computer instructions that are executed by a CPU, which are specific to each CPU?	machine code	☆
Which statement declares a	<code>int count;</code>	☆

variable that will store an integer value?		
Which one of the following memory types provides storage that persists without electricity?	secondary storage	☆
By convention, variables begin with a(n) _____.	lowercase letter	☆
What is the purpose of the assignment operator?	to change the value of a variable	☆
What is the output of the following Java statement?	10	☆
Which of the following is a mutator method for the	translate	☆
Who or what is responsible for inspecting and testing the program to guard against logic errors?	programmer	☆
Every Java program consists of one or more of these fundamental building blocks.	class	☆
Which of the following declares a variable that will store a measurement with fractional parts?	double measure;	☆
What entity belongs to a class and is manipulated in a program?	object	☆
What does a class file contain?	Instructions for the Java Virtual Machine.	☆
Which is not a method of the	println	☆
Structuring programs and development processes in such a way that an error in one part	defensive programming	☆

of the program does not trigger a disastrous response is referred to as ____.

Which statement calls a constructor with no construction parameters?

```
Circle c = new Circle();
```



What type of program can you use to enter your Java program?

editor



What is the name of the file created after a successful compilation of

MyClass.class



Which of the following method calls illustrates the return value of a method as a parameter?

```
System.out.println(greeting.length());
```



For a program to be executed, where must it reside so that the CPU can read its instructions?

memory



What is the term used to describe an error detected by the compiler that is a violation of the programming language rules?

compile-time error



Which statement declares a variable that references a

```
Circle c = new Circle(3);
```



What translates Java source code into files that contain instructions for the JVM?

compiler



What term is used to refer to languages that allow programmers to describe tasks at a higher conceptual level than machine code?

high-level



What is another term used to

syntax error



describe an error detected by the compiler that is a violation of the programming language rules?		
By convention, classes begin with a(n) _____.	uppercase letter	☆
A method is called by specifying which 3 items in the specified order?	object, method name, parameters	☆
The input to a method is called a(n) _____.	parameter	☆
Fill in the blank in the following method comment.	amount	☆
What is a tester class?	A class with a main method that contains statements to run methods of another class.	☆
Consider the following code to declare a constructor for the	The code compiles successfully but results in a compiler error in the code that calls the constructor.	☆
What statement is used to specify the value that a method gives back to its caller?	return	☆
What do static variables belong to?	a class	☆
What is the process of hiding object data and providing methods for data access called?	encapsulation	☆
What does an object store its data in?	instance variables	☆
When are instance variables initialized?	Instance variables are initialized with a default value before a constructor is invoked.	☆
Which of the following corresponds to the	return sideLength * sideLength;	☆

The name of the constructor is always the same as the name of the __.	class	☆
When a method exits, its ___ are removed.	local variables	☆
Private instance variables ___.	can only be accessed by methods of the same class	☆
Instance variables that are object references are initialized to what default value?	null	☆
What do parameters and local variables belong to?	a method	☆
A method header consists of which of the following parts?	an access specifier, a return type, a method name, and a list of the parameters (if any)	☆
Which of the following corresponds to a valid constructor header for the	public Player()	☆
Each object of a class has its own set of ___.	instance variables	☆
The private implementation of a class consists of ___.	instance variables and the implementation of the constructors and methods	☆
You should provide documentation comments for ___.	every class, every method, every parameter, and every return value	☆
Instance variables that are numbers are initialized to what default value?	0	☆
Consider the following invocation of the	mySavings	☆
You should declare all instance variables as ___.	private	☆
Which of the following gets the	char ch = sentence.charAt(sentence.length()-1);	☆

last character of the string referenced by		
What type of method does NOT operate on an object?	static	☆
What is the name of the operation denoted by the ++ operator?	increment	☆
The decimal equivalent of 110100 binary is ____.	52	☆
What is the starting position of a string?	0	☆
Which of the following statements is equivalent to	items *= 2;	☆
Which of the following code fragments converts a floating-point number to the nearest integer?	int n = (int) Math.round(f);	☆
Which of the following statements is equivalent to	balance += amount;	☆
Consider this code fragment.	The code compiles and runs correctly.	☆
Which of the following correctly defines a constant in a method?	final double NICKEL_VALUE = 0.05;	☆
Which of the following statements about strings is true?	class.	☆
The first digit of a credit card number typically indicates the type of credit card. Which of the following finds the first digit of the string referenced by	char digit = creditCardNumber.charAt(0);	☆
What is the name of the + operator when applied to strings?	concatenation	☆

In Java, every value is either a reference to an object, or it belongs to one of the eight _____.	primitive types	☆
Numerical _____ are values that do not change and that have a special significance for a computation.	constants	☆
Consider this code fragment.	The code compiles and runs correctly, displaying the label and balance of the account.	☆
What is the value of	x	☆
How do you compute the area of a circle referencing a constant in the	double area = Math.PI radius radius;	☆
What is the name of the method that extracts part of a string?	substring	☆
What is the Java operator that computes the remainder of an integer division?	%	☆
Using the _____ reserved word when declaring a constant means that the constant belongs to the class.	static	☆
In Java, what reserved word is used to identify constants?	final	☆
Assume the string	String areaCode = phoneNumber.substring(0,3);	☆
Which statement correctly computes the absolute value of the difference between x and y?	Math.abs(x-y)	☆
Based on the code below, which statement creates a string in the format	String helloName = hello + ", " + name + "!";	☆

Which of the following is the constant of type	'n'	☆
The use of an instance variable name inside a method denotes the instance variable of what?	the implicit parameter	☆
The first digit of a credit card number typically indicates the type of credit card. Which of the following finds the first digit of the string referenced by	<code>char digit = creditCardNumber.charAt(0);</code>	☆
In Java, which of the following is not an integer primitive type?	double	☆
What is the result of <code>a / b</code> when variables <code>a</code> and <code>b</code> are declared as follows:	1	☆
You should declare all instance variables as ___.	private	☆
The public constructors and methods of a class form the public ____ of the class.	interface	☆
When are instance variables initialized?	Instance variables are initialized with a default value before a constructor is invoked.	☆
What is the starting position of a string?	0	☆

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