1. Which of the following refers to a collection of programs that a computer executes?				
A. source codeB. instructionsC. assemblerD. software Answer				
Section Ref Title Difficulty id	1.1 Computer Programs Which (term) refers to a collection of programs? Easy testbank-bjlo-2-ch01-1			
2. Computers are machines t	hat			
A. design computer pro B. execute programs C. are imprecise and sl D. carry out a very nar	Answer low			
Section Ref Title Difficulty id	1.1 Computer Programs What kind of machines are computers? Easy testbank-bjlo-2-ch01-2			
3. Computer programming is	S			
B. the storage of data i	and implementing a computer program Answer n the form of words and pictures ripheral devices connected to a computer th a computer operates			
Section Ref Title Difficulty id	1.1 Computer Programs What is computer programming? Easy testbank-bjlo-2-ch01-3			
4. Consider the following statements regarding computers:				
I. Computers can execute a large number of instructions in a fraction of a second.				
II. Computer application areas mainly target the research and scientific communities.				
III. The physical components of a computer constitute its hardware.				
IV. Unlike humans, a computer never gets bored or exhausted when performing repetitive tasks.				
Which of the statements are correct?				
A. I, III, and IV only B. I and III only C. III only D. I, II, and III only	Answer			
Section Ref Title Difficulty id	1.1 Computer Programs Which statement(s) regarding computers is (are) correct? Easy testbank-bjlo-2-ch01-4			

- 5. Consider the following statements about computer programs:
 - I. Computer programs can be written by someone who has a basic knowledge of operating a computer.
 - II. Computer programs can complete complex tasks quickly.
 - III. Large and complex computer programs are generally written by a group of programmers.
 - IV. Computer programs are composed of extremely primitive operations.

Which of the statements are correct?

- A. I, II, III and IV
- B. I and IV
- C. II and III only
- D. II, III, and IV only Answer

Section Ref 1.1 Computer Programs

Title Which statement(s) regarding computer programs is (are) correct?

Difficulty Easy

id testbank-bjlo-2-ch01-5

- 6. Writing a computer game in Java that has graphics, motion, and sound effects
 - A. cannot be done in the Java programming language
 - B. is simple because of the power of Java
 - C. requires a team of skilled programmers Answer
 - D. is more mundane than most programs

Section Ref 1.1 Computer Programs

Title What is required to write a computer game in Java?

Difficulty easy

id testbank-bjlo-2-ch01-6

- 7. The Central Processing Unit is primarily responsible for ...
 - A. interconnecting computers that are separated by distance
 - B. ensuring data persists when electrical power is turned off
 - C. performing program control and data processing Answer
 - D. enabling a human user to interact with the computer

Section Ref 1.2 The Anatomy of a Computer Title What is the function of a CPU?

Difficulty Easy

id testbank-bjlo-2-ch01-7

- 8. A single silicon chip made from potentially millions of transistors is called
 - A. an Optical Disk (such as a DVD)
 - B. secondary Storage
 - C. a Hard Disk
 - D. a Central Processing Unit (CPU) Answer

Section Ref 1.2 The Anatomy of a Computer
Title What is a chip with transistors called?

Difficulty Easy

9. An example of an outpu	t device that interfaces between computers and humans is
A. a speaker Answer B. a mouse C. a microphone D. a keyboard	
Section Ref Title Difficulty id	1.2 The Anatomy of a Computer What is an example of an output device that interfaces between humans and computers? Easy testbank-bjlo-2-ch01-9
10. An example of an input	device that interfaces between computers and humans is
A. a monitor B. a microphone Ar C. a printer D. a speaker	nswer
Section Ref Title Difficulty id	1.2 The Anatomy of a Computer What is an example of an input device that interfaces between humans and computers? Easy testbank-bjlo-2-ch01-10
11. Programs that are not ru	nning are usually stored
A. in secondary stora B. on a backup devic C. on the computer n D. in the CPU's mem	be that is in a different physical location from the computer nonitor
Section Ref Title Difficulty id	1.2 The Anatomy of a Computer Where are programs usually stored when they are not running? Easy testbank-bjlo-2-ch01-11
12. When a program begins	to run,
B. it is moved from I C. it is moved to the	he CPU's memory to hard disk OVD to hard disk CPU's memory Answer ted to a computer network
Section Ref Title Difficulty id	1.2 The Anatomy of a Computer What happens when a program begins to run? Easy testbank-bjlo-2-ch01-12
13. Which of the following	typically provides data persistence without electricity?
I. The CPU's memory	
II. The hard disk	
III. Secondary storage	
A. I, II, and III B. I and III only C. I and II only	

D. II and III only Answer

Section Ref 1.2 The Anatomy of a Computer

Title Which storage type provides data persistence without electricity?

Difficulty Easy

id testbank-bjlo-2-ch01-13

- 14. In order for the ENIAC computer to be re-programmed,
 - A. vacuum tubes needed to be replaced
 - B. wires needed to be plugged into a different wiring configuration Answer
 - C. the programmer needed to load the program from cards
 - D. the programmer needed to download the new code over the computer network

Section Ref 1.2 The Anatomy of a Computer

Title What is true about the ENIAC being re-programmed?

Difficulty easy

id testbank-bjlo-2-ch01-14

- 15. Consider a scenario in which you develop a Java program on a computer that has a Pentium processor. What step should you take to run the same Java program on a computer that has a different processor?
 - A. Load the program in a browser on the computer that has a different processor.
 - B. The compiled Java machine language instructions can be run on any processor that has a Java Virtual Machine. Answer
 - C. You cannot run the program on a computer with a different processor because high-level programming languages are machine dependent.
 - D. Develop the same program again on the computer that has a different processor and recompile the program.

Section Ref 1.3 The Java Programming Language

Title What step should you take to run a program in a high-level language on a (different) processor?

Difficulty Medium

id testbank-bjlo-2-ch01-15

- 16. High-level programming languages
 - A. are made up primarily of ones and zeros
 - B. are independent of the underlying hardware Answer
 - C. use syntax that is close to the underlying hardware's instruction set
 - D. are not standardized

Section Ref 1.3 The Java Programming Language

Title What are the characteristics of high-level programming languages?

Difficulty Easy

id testbank-bjlo-2-ch01-16

- 17. Which one of the following translates high-level descriptions into machine code?
 - A. assembler
 - B. compiler Answer
 - C. editor
 - D. linker

Section Ref 1.3 The Java Programming Language

Title Which translates high-level descriptions into machine code?

Difficulty Easy

18. Computer scientists	
A. compilers B. embedded sys	
D. machine instru	gramming languages Answer actions
Section Ref Title Difficulty id	1.3 The Java Programming Language What are the tools used to describe and solve high-level problems? Easy testbank-bjlo-2-ch01-18
19. Small applications ware called	vritten in the Java programming language that can be located anywhere on the Interne
A. applets Answ B. compilers C. embedded sys D. virtual machin	tems
Section Ref Title Difficulty	1.3 The Java Programming Language What are small applications written in Java called? Easy
id	testbank-bjlo-2-ch01-19
20. What is one of the b	enefits of using a high-level programming language like Java?
hardware. An B. Statements in C. Its syntax is vo	red in a high-level language are independent of the underlying computer on the high-level language are just like English. ery similar to the hardware instruction set. than a text editor are required for programming.
Section Ref Title Difficulty id	1.3 The Java Programming Language What are the benefits of using high-level languages? Easy testbank-bjlo-2-ch01-20
21. Because Java was de programmers?	esigned for the Internet, which two of its attributes make it suitable for beginning
A. Efficiency and B. Safety and por C. Safety and sec D. Efficiency and	rtability Answer curity
Section Ref Title Difficulty id	1.3 The Java Programming Language What are two important Java attributes? Easy testbank-bjlo-2-ch01-21
	programs on a computer, the computer needs to have software called a(n)
A. assembler B. virtual machin C. windows D. debugger	ne Answer

1.3 The Java Programming Language

Section Ref

Title Difficulty id	Software needed to run Java on a computer Medium testbank-bjlo-2-ch01-22
23. In order to translate a Java	program to a class file, the computer needs to have software called a(n)
A. assembler B. virtual machine C. compiler Answer D. debugger	
Section Ref Title Difficulty id	1.3 The Java Programming Language Software needed to translate Java source code Medium testbank-bjlo-2-ch01-23
24. A Java virtual machine is	
A. firmwareB. hardwareC. appletD. software Answer	
Section Ref Title Difficulty id	1.3 The Java Programming Language A Java virtual machine is Medium testbank-bjlo-2-ch01-24
	y Sun Microsystems that became the Java programming language was originally ure, and
A. environmentally frie B. usable for many diff C. available over the In D. easy to program on a	erent processor types Answer ternet
Section Ref Title Difficulty id	1.3 The Java Programming Language The Java programming language was designed to be? easy testbank-bjlo-2-ch01-25
26. The term applet refers to _	·
1 0	runs as a C++ program runs within a web browser Answer runs within an Integrated Development Environment (IDE)
Section Ref Title Difficulty id	1.3 The Java Programming Language What is an "applet"? easy testbank-bjlo-2-ch01-26
27. Programmers have embrac	ed Java over its closest rival, C++, mainly because
A. it is easier to use AB. it is easier to debug	nswer

D. most computers only understand Java

Section Ref 1.3 The Java Programming Language
Title Why have programmers embraced Java?

Difficulty easy

id testbank-bjlo-2-ch01-27

- 28. How does Java achieve portability?
 - A. Java programs are compiled to instructions for a virtual machine. Answer
 - B. Java programs must be re-compiled on each platform where they are to run.
 - C. Java programs are interpreted.
 - D. Java programs are compiled to instructions in the C++ programming language.

Section Ref 1.3 The Java Programming Language Title How does Java achieve portability?

Difficulty medium

id testbank-bjlo-2-ch01-28

- 29. A Java Virtual Machine is
 - A. a theoretical machine to help understand the computational complexity of algorithms
 - B. a kind of computer hardware that is embedded into the CPUs of all computers using Java
 - C. a library package that extends the capability of the Java programming language
 - D. a program that simulates a real CPU Answer

Section Ref 1.3 The Java Programming Language Title What is a Java Virtual Machine?

Difficulty easy

id testbank-bjlo-2-ch01-29

- 30. The Java programming language is itself relatively simple, but also contains a vast set of
 - A. cross-platform scripting languages
 - B. syntactical variations
 - C. library packages Answer
 - D. program templates

Section Ref 1.3 The Java Programming Language Title Java also contains a vast set of ?

Difficulty easy

id testbank-bjlo-2-ch01-30

- 31. A Java class with the name Printer has to be saved using the source file name:
 - A. Printer.txt
 - B. printer.txt

C. Printer.java Answer

D. printer.java

Section Ref 1.4 Becoming Familiar with Your Programming Environment

Title Java source file names

Difficulty Medium

- 32. An integrated development environment (IDE) bundles tools for programming into a unified application. What kinds of tools are usually included?
 - A. a web browser

- B. source files and class files
- C. an editor and a compiler Answer
- D. presentation tools

Section Ref 1.4 Becoming Familiar with Your Programming Environment

Title What kinds of tools are included in an IDE?

Difficulty Easy

id testbank-bjlo-2-ch01-32

- 33. What is the difference between an editor and a compiler?
 - A. An editor allows program files to be written and stored; a compiler converts program files into an executable program. Answer
 - B. An editor converts program files into an executable program; a compiler allows program files to be written and stored.
 - C. An editor allows program files to be written and stored; a compiler produces an indexed database of terms and keywords.
 - D. An editor allows program files to be written and stored; a compiler produces an organized list of files.

Section Ref 1.4 Becoming Familiar with Your Programming Environment Title What is the difference between an editor and a compiler?

Difficulty Easy

id testbank-bjlo-2-ch01-33

- 34. Suppose you examine a simple Java program and the first line is public class HelloPrinter. Is this the same thing in Java as the line public class helloprinter?
 - A. No, because helloprinter is misspelled, the Java compiler will reject it.
 - B. Yes, because these Java symbols both have the same letters, they are considered to be the same
 - C. No, because Java is case-sensitive, these are considered to be completely distinct. Answer
 - D. Yes, because all Java symbols must have exactly twelve characters.

Section Ref 1.4 Becoming Familiar with Your Programming Environment

Title Are these lines of code the same?

Difficulty Easy

id testbank-bjlo-2-ch01-34

- 35. Consider the following statements about folders and your integrated development environment (IDE):
 - I. Hierarchical folders help to organize a project.
 - II. Folders are a way to visualize the layout of a file system.
 - III. Folders make it impossible to lose or accidentally delete a file.

Which statements are correct?

- A. I only
- B. III only
- C. I and II only Answer
- D. I, II, and III

Section Ref 1.4 Becoming Familiar with Your Programming Environment Title How is your integrated development environment organized?

Difficulty Easy

id testbank-bjlo-2-ch01-35

36. The source code for a Java program is stored in a file _____

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	A. that ends with a .c. B. that can have any C. that has no suffix D. that ends with a .j	valid file name
	Section Ref Title Difficulty id	1.4 Becoming Familiar with Your Programming Environment Where is Java source code stored? easy testbank-bjlo-2-ch01-36
37.	A Java "class" file	·
	B. contains Java sour C. is the translation o	ns for the Java virtual machine Answer ce code f the Java source code into C++ created by the Integrated Development Environment (IDE)
	Section Ref Title Difficulty id	1.4 Becoming Familiar with Your Programming Environment What is a Java "class" file? easy testbank-bjlo-2-ch01-37
38.	Which of the following s	statements regarding backup strategies for Java files are true?
	I. You should back up yo	our projects often to prevent loss of valuable work.
	II. You should check you	or backups only in case of loss of data.
	III. You should pay atten	tion to the backup direction.
	A. I and II only B. I, II, and III C. II and III only D. I and III only	iswer
	Section Ref Title Difficulty id	1.4 Becoming Familiar with Your Programming Environment Which statement regarding backup strategies for Java files is correct? Medium testbank-bjlo-2-ch01-38
39.	Which pointers about ba	cking up your Java projects are important?
	I. Check your backups of	nce in a while.
	II. Rely on the Java prog	ramming language's built-in back up system.
	III. Back up often.	
	A. I, II, and III B. I and II only C. II and III only D. I and III only	swer
	Section Ref	1.4 Becoming Familiar with Your Programming Environment

Which pointers are important for backing up Java projects?

40. Every Java program consists of one or more ______.

easy

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Title

id

Difficulty

- A. classes Answer
- B. strings
- C. System.out.println statements
- D. values (arguments)

Section Ref 1.5 Analyzing Your First Program What does every program consist of?

Difficulty Easy

id testbank-bjlo-2-ch01-40

- 41. Characters that are grouped together between double quotes (quotation marks) in Java are called
 - A. syntax
 - B. strings Answer
 - C. reserved words
 - D. symbols

Section Ref 1.5 Analyzing Your First Program

Title What is the term for characters grouped together and enclosed in quotes?

Difficulty Easy

id testbank-bjlo-2-ch01-41

- 42. Every statement in Java must be terminated with .
 - A. the semi-colon character; Answer
 - B. System.out.println()
 - C. a carriage return
 - D. an escape sequence

Section Ref 1.5 Analyzing Your First Program
Title What does every statement end with?

Difficulty Easy

id testbank-bjlo-2-ch01-42

43. These two lines of code do not produce the same output. Why?

```
System.out.println(7 + 3);
System.out.println("7 + 3");
```

- A. The lack of escape characters causes the expressions to be treated differently.
- B. In fact, the two statements do produce the same output.
- C. The quotes cause the second expression to be treated as a string. Answer
- D. Arithmetic calculations cannot take place within the println method call.

Section Ref 1.5 Analyzing Your First Program

Title Why do the example lines of code behave the way they do?

Difficulty Easy

id testbank-bjlo-2-ch01-43

44. What is the output from this code snippet?

```
System.out.print("The sum is ");
System.out.println("7 + 3");
```

- A. The sum is 21
 - B. The sum is 4
 - C. The sum is 10
 - D. The sum is 7 + 3 Answer

Section Ref1.5 Analyzing Your First Program
What is the output from this code?

Difficulty Easy

id testbank-bilo-2-ch01-44

- 45. Which of the following symbols is used to terminate a Java program statement?
 - A. colon
 - B. single quote
 - C. semicolon Answer
 - D. period

Section Ref 1.5 Analyzing Your First Program

Title Which symbol is used to terminate a Java program statement?

Difficulty Easy

id testbank-bjlo-2-ch01-45

- 46. Which of the following statements is valid with respect to the usage of a semicolon in Java?
 - A. You cannot use a semicolon to terminate the System.out.print statement.
 - B. A semicolon is used to terminate the public class statement.
 - C. A semicolon is used to denote the end of a statement. Answer
 - D. You cannot put a semicolon within double quotation marks.

Section Ref 1.5 Analyzing Your First Program

Title Which statement is true about semicolon usage?

Difficulty Medium

id testbank-bjlo-2-ch01-46

- 47. Which of the following statements is true with respect to the main method in Java?
 - A. A semicolon is required after the closing curly braces in the main method.
 - B. Every Java application must have a main method. Answer
 - C. The opening and closing parentheses after the method name main are optional.
 - D. A semicolon is required after the statement public static void main()

Section Ref 1.5 Analyzing Your First Program

Title Which statement is true about the main method?

Difficulty Medium

id testbank-bjlo-2-ch01-47

- 48. Which statement starts the declaration of a class in Java?
 - A. Java class
 - B. public class Classname Answer
 - C. System.out.println("Hello, World!");
 - D. public static void main(String[] args)

Section Ref 1.5 Analyzing Your First Program

Title Which statement starts a class declaration in Java

Difficulty Medium

- 49. Which Java statement prints a blank line?
 - A. System.out.println(); Answer
 - B. System.out.print();
 - C. public static void main(String[] args)
 - D. System.out.Println();

Section Ref 1.5 Analyzing Your First Program
Title Which statement prints a blank line

Difficulty Medium

id testbank-bjlo-2-ch01-49

50. Which Java statement does not contain an error?

```
A. System.out.print(;
B. System.out.print()
C. System.out.printl();
D. System.out.println();
Answer
```

Section Ref 1.5 Analyzing Your First Program
Which statement does not contain an error

Difficulty Medium

id testbank-bjlo-2-ch01-50

51. What is the output of the following code snippet?

```
System.out.print(4 + 4);
System.out.print(12);

A. 4412
B. 4 + 412
C. 20
D. 812 Answer
```

Section Ref 1.5 Analyzing Your First Program
Title What is output of snippet (using print)?

Difficulty Medium

id testbank-bjlo-2-ch01-51

52. The Java statement public static void main(String[] args) declares a

- A. classB. constant
- C. variable
- D. method Answer

Section Ref 1.5 Analyzing Your First Program

Title The statement "public static void main(String[] args)"declares what?

Difficulty Medium

id testbank-bjlo-2-ch01-52

53. Which of the following statements must you include in a Java class that can be executed by the virtual machine?

```
A. // Hello
B. System.out.println();
C. public static void main(String[] args) Answer
D. return 0;
```

Section Ref 1.5 Analyzing Your First Program

Title Which statements should you include in executable class?

Difficulty Easy

id testbank-bjlo-2-ch01-53

54. What is the output of the following code snippet?

```
System.out.print("Hello");
System.out.println("Good Day!");

A. Hello
Good Day!

B. Hello Good Day!

C. HelloGood Day!

Answer

D. HelloGoodDay!

Section Ref
Title
What is output of snippet?
Medium
testbank-bjlo-2-ch01-54
```

55. Which one of the following code snippets compiles without errors and displays the output "Hello Good Day!" on the screen?

```
A. System.out.print("Hello ")
    System.out.println(Good Day!");
B. System.out.print("Hello );
    System.out.println("Good Day!");
C. System.out.print("Hello");
    System.out.println("Good Day!")
D. System.out.print("Hello ");
    System.out.println("Good Day!");
    Answer
```

Section Ref 1.5 Analyzing Your First Program

Title Which snippet compiles without errors and displays "Hello Good Day!"?

Difficulty Easy

id testbank-bjlo-2-ch01-55

56. What is the output of the following code snippet?

57. Which statements are true?

- I. In Java, a file can contain at most one public class.
- II. The word public denotes that the class is usable by the "public".
- III. Every Java program must have a main method.
 - A. I, II, and III Answer
 - B. I and III only
 - C. I and II only
 - D. II and III only

Section Ref 1.5 Analyzing Your First Program Which statements about Java are true?

Difficulty medium

id testbank-bjlo-2-ch01-57

- 58. The technical term for the values that a method needs in order to carry out its task is an argument. When there is more than one argument needed by a method, they are
 - A. separated by semicolons
 - B. separated by spaces
 - C. separated by commas Answer
 - D. merged into a single variable

Section Ref 1.5 Analyzing Your First Program

Title Where a method needs more than one argument, they are _____?

Difficulty easy

id testbank-bjlo-2-ch01-58

- 59. In Java, if you want the compiler to interpret what you type as program instructions, you must
 - A. write the instructions in all capital letters
 - B. write correct Java statements separated by the semicolon Answer
 - C. enclose those instructions within quotation marks
 - D. start the line that you type with the symbols //

Section Ref 1.5 Analyzing Your First Program

Title How do you type program commands in Java?

Difficulty easy

id testbank-bjlo-2-ch01-59

- 60. What kind of error is it when your program has a syntax error?
 - A. compile-time error Answer
 - B. logic error
 - C. exception
 - D. run-time error

Section Ref 1.6 Errors

Title Which kind of error is a syntax error?

Difficulty Easy

- 61. When a compiler finds a syntax error in a program, what happens?
 - A. The compiler requests input from the user before it will continue.
 - B. The compiler stops immediately.

- C. The compiler continues and may report about other errors but does not produce a Java class file. Answer
- D. The compiler goes ahead and produces a Java class file, but leaves out the statement where there was an error.

Section Ref 1.6 Errors

Title What happens when the compiler finds a syntax error?

Difficulty Easy

id testbank-bjlo-2-ch01-61

62. What kind of error is created by the following code snippet?

```
System.outt.println("Hello");
```

- A. Logic error: the program will run until it comes to this statement
- B. Syntax error: the program will not compile Answer
- C. No error: the code is correct
- D. Exception: the statement will generate an exception

Section Ref 1.6 Errors

Title What kind of error is created by the code snippet?

Difficulty Easy

id testbank-bjlo-2-ch01-62

63. What kind of error is created by the following code snippet?

```
System.out.print("The sum of 8 and 12 is ");
System.out.println(8 * 12);
```

- A. Exception: the statement will generate an exception
- B. Syntax error: the code will not compile
- C. No error: the code is correct
- D. Logic error: the program does not produce the desired result Answer

Section Ref 1.6 Errors

Title What kind of error is created by the code snippet?

Difficulty Easy

id testbank-bjlo-2-ch01-63

- 64. What is a logic error?
 - A. An error that occurs when a program is running because, for example, the wrong operator was used. Answer
 - B. An error introduced by the compiler when it guesses at how to fix a syntax error.
 - C. An error in a statement that does not conform to the syntax of the programming language.
 - D. An error in the hardware from overheating.

Section Ref 1.6 Errors

Title What is the definition of a logic error?

Difficulty Easy

id testbank-bjlo-2-ch01-64

- 65. How do programmers find exceptions and run-time errors?
 - A. Re-compiling using different symbols
 - B. Using the compiler
 - C. Testing by running the program with a variety of input values Answer
 - D. Carefully reading over the program code

Section Ref 1.6 Errors

Title	How do	programmers	find e	exceptions	and run-	time	errors?
11110	110W do	programmers	mu c	Acceptions	una run-	tillic	CITOIS:

Difficulty Easy

id testbank-bjlo-2-ch01-65

- 66. The programmer, not the compiler, is responsible for testing a program to identify
 - A. run-time errors Answer
 - B. undefined symbols
 - C. syntax errors
 - D. compile-time errors

Section Ref 1.6 Errors

Title Who is responsible for what (programmer vs. compiler)?

Difficulty Easy

id testbank-bjlo-2-ch01-66

- 67. Which one of the following errors represents a part of a program that is incorrect according to the rules of the programming language?
 - A. run-time errors
 - B. out-of-memory errors C. syntax errors Answer
 - D. logic errors

Section Ref 1.6 Errors

Title Which kind of error violates rules of the programming language?

Difficulty East

id testbank-bjlo-2-ch01-67

- 68. Who or what is responsible for inspecting and testing the program to guard against logic errors?
 - A. end-user
 - B. Integrated Development Environment
 - C. compiler
 - D. programmer Answer

Section Ref 1.6 Errors

Title Who/what is responsible for ... guarding against logic errors?

Difficulty Easy

id testbank-bjlo-2-ch01-68

- 69. While developing a program, the programmer adds the discount amount to the total due instead of subtracting it. What type of an error is this?
 - A. hardware error
 - B. compile-time error
 - C. logic error Answer
 - D. syntax error

Section Ref 1.6 Errors

Title What type of error is (adding instead of subtracting)?

Difficulty Medium

id testbank-bjlo-2-ch01-69

70. In Java, the following statement

System.out.print("hello");;;

- A. seems like it should print out "hello" but doesn't
- B. asks the user to enter a value and stores it in the variable "hello"

D. is a legal statement	Answer
Section Ref Title Difficulty id	1.6 Errors What can you say about the given Java statement? medium testbank-bjlo-2-ch01-70
71. Sometimes errors throw the	e compiler off track because
B. it cannot tell which I C. the compiler does no	e trained by your programming style anguage you are writing without a network connection of understand quotation marks of give up when it finds the first error Answer
Section Ref Title Difficulty id	1.6 Errors Why does the Java compiler sometimes get "off track"? easy testbank-bjlo-2-ch01-71
72. Some run-time errors are se	o severe that they generate
A. the loss of your sourd B. an exception Answe C. a syntax error D. an email to your acco	r
Section Ref Title Difficulty id	1.6 Errors Severe run-time errors generate? easy testbank-bjlo-2-ch01-72
73. During program developme	ent, errors are
A. very rare B. automatically tracked C. unavoidable Answer D. prevented by the Jav	
Section Ref Title Difficulty id	1.6 Errors What is true about errors during program development? easy testbank-bjlo-2-ch01-73
74. If you misspell a word in y	our Java program, which of the following statements are true?
I. the program will not com	npile
II. the program may compi	le, but not run
III. the program may comp	ile and run but still have a logic error
A. I, II, and III Answer B. I and III only C. II and III only D. I and II only	
Section Ref	1.6 Errors

What might happen if you misspell a word in your Java program?

medium

Title Difficulty id

testbank-bjlo-2-ch01-74

75. A sequence of steps that is unambiguous, executable, and terminating is called

A. an algorithm Answer

B. a logarithm

C. a programming task

D. pseudocode

Section Ref 1.7 Problem Solving: Algorithm Design

Title What is the term for a set of steps that is unambiguous, executable, and terminating?

Difficulty

testbank-bjlo-2-ch01-75 id

76. You have been asked to develop an algorithm to calculate the total cost of a purchase order that contains several T shirts. The cost of each T shirt and the tax rate is known. The standard shipping charge for the entire order is \$5.75, and the special delivery charge is \$23.65. In addition, there is no tax on the shipping cost. Which of the following is the correct pseudocode for the required algorithm?

```
A. For each T shirt on the purchase order
    Order cost = order cost + T shirt cost
  Total purchase order cost = order cost + tax rate + 5.75
```

B. If standard shipping

Shipping cost = 5.75

Shipping cost = 23.65

For each T shirt on the purchase order

Order cost = order cost + T shirt cost + shipping cost

Total purchase order cost = order cost * tax rate

C. If special delivery

Shipping cost = 5.75

Else

Shipping cost = 23.65

For each T shirt on the purchase order

Order cost = order cost + T shirt cost

Total purchase order cost = order cost * tax rate + shipping cost

D. For each T shirt on the purchase order

Order cost = order cost + T shirt cost

If standard shipping

Shipping cost = 5.75

Else

Shipping cost = 23.65

Total purchase order cost = order cost + order cost * tax rate + shipping cost

Answer

Section Ref

Title Which is the correct pseudocode for algorithm to calculate total cost?

Difficulty Medium

id testbank-bjlo-2-ch01-76

77. What is the purpose of the following algorithm, written in pseudocode?

```
num = 0
Repeat the following steps 10 times
Input var1
If var1 > num
Num = var1
```

Print num

- A. To search for a particular number among 10 numbers
- B. To find the smallest among 10 numbers
- C. To print out the 10 numbers
- D. To find the highest among 10 numbers Answer

Section Ref 1.7 Problem Solving: Algorithm Design Title What is the purpose of this algorithm?

Difficulty Medium

id testbank-bjlo-2-ch01-77

- 78. Consider a situation where you are buying books online. The bookseller charges \$19.95 as the price per book and \$4.95 as the handling cost for up to three books. For every book purchased in addition to three books, there is a handling charge of \$1.50. In addition, there is a 7 percent tax on the cost of the books but not on the handlingCharges. Assuming that numBooks represents the number of books you are purchasing, which of the following is the correct algorithm for calculating the total cost of your purchase?
 - A. Total charge for books = 19.95 * numBooks

 Tax on the books = numBooks * .07

 if (books < 3) then handlingCharges = 4.95

 else handlingCharges = 4.95 + 1.50 * (numBooks 3)

 Total cost of order = total charge for books + tax + handlingCharges
 - B. Total charge for books = 19.95 * numBooks
 Tax on the books = total charge for books * .07
 if (books = 3) then handlingCharges = 4.95
 else handlingCharges = 1.50 * numBooks
 Total cost of order = total charge for books + tax + handlingCharges
 - C. Total charge for books = 19.95 * numBooks
 Tax on the books = total charge for books * .07
 if (books <= 3) then handlingCharges = 4.95
 else handlingCharges = 4.95 + 1.50 * (numBooks 3)
 Total cost of order = total charge for books + tax + handlingCharges</p>

Answer

D. Total charge for books = 19.95 * numBooks

Tax on the books = numBooks * .7

if (books <= 3) then handlingCharges = 4.95

else handlingCharges = 1.50 * numBooks

Total cost of order = total charge for books + tax + handlingCharges

Section Ref 1.7 Problem Solving: Algorithm Design

Title Which is the correct algorithm for calculating total cost with tax/shipping?

Difficulty Hard

id testbank-bjlo-2-ch01-78

- 79. Imagine you are planning to buy a new cell phone. You are considering two cell phones. These cell phones have different purchase prices. Each mobile service provider charges a different rate for each minute that the cell phone is used. To determine which cell phone is the better buy, you need to develop an algorithm to calculate the total cost of purchasing and using each cell phone. What are all the inputs needed for this algorithm?
 - A. The cost of each cell phone and the number of minutes provided with each cell phone
 - B. The cost of each cell phone, the rate per minute for each cell phone, and the number of minutes you would use the cell phone Answer
 - C. The cost of each cell phone, the rate per minute for each cell phone, and the number of minutes provided with each cell phone
 - D. The cost of each cell phone and the rate for each minute for each cell phone

Section Ref 1.7 Problem Solving: Algorithm Design

Title Which inputs do you need to calculate cost of purchasing/using cell phone?

Difficulty Medium

id testbank-bjlo-2-ch01-79

- 80. Which one of the following methodologies is a sequence of steps formulated in English for solving a problem?
 - A. Pseudocode Answer
 - B. Terminations
 - C. Flowcharts
 - D. Algorithms

Section Ref 1.7 Problem Solving: Algorithm Design

Title Which methodology is an informal description of steps for solving a problem?

Difficulty Easy

id testbank-bjlo-2-ch01-80

- 81. Imagine you are developing an algorithm to calculate the total cost of a purchase order that contains several items. The cost of each item and the tax rate is known. The standard shipping charge for the entire order is \$4.95, and the special delivery charge is \$19.95. In addition, there is no tax on the shipping cost. Which of the following is the correct pseudocode for the required algorithm?
 - A. If special delivery

Shipping cost = 4.95

Else

Shipping cost = 19.95

For each item on the purchase order:

Order cost = order cost + item cost

Total purchase order cost = order cost * tax rate + shipping cost

```
B. If standard shipping
           Shipping cost = 4.95
         Else
           Shipping cost = 19.95
         For each item on the purchase order:
           Order cost = order cost + item cost + shipping cost
         Total purchase order cost = order cost * tax rate
      C. For each item on the purchase order:
           Order cost = order cost + item cost
         If standard shipping
           Shipping cost = 4.95
         Else
           Shipping cost = 19.95
         Total purchase order cost = order cost + order cost * tax rate + shipping cost
           Answer
      D. For each item on the purchase order:
           Order cost = order cost + item cost
         Total purchase order cost = order cost + tax rate + 4.95
     Section Ref
                             1.7 Problem Solving: Algorithm Design
                             Which is the correct pseudocode for algorithm to calculate total cost?
     Title
     Difficulty
                             Medium
                             testbank-bjlo-2-ch01-81
82. Evaluate the pseudocode below to calculate the payment (pmt) with the following test values:
   The total number of hours worked (workingHours) = 50
   The rate paid for hourly work (rate) = 10
   Input workingHours
   Input rate
   pmt = workingHours * rate
   If working_hours > 45
     extraHours = workingHours - 45
     extraPmt = extraHours * rate * 2
     pmt = pmt + extraPmt
   Output pmt
      A. 500
      B. 400
      C. 600 Answer
      D. 1,000
```

1.7 Problem Solving: Algorithm Design

Evaluate this pseudocode with these test values.

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Section Ref

Title

Difficulty Hard

id testbank-bjlo-2-ch01-82

83. What is the purpose of the following algorithm?

someNum = 0
Repeat the following steps 50 times
Input variable1
if variable1 > someNum
someNum = variable1

Print someNum

- A. To print out the 50 numbers
- B. To find the smallest of 50 numbers
- C. To search for a particular number among 50 numbers
- D. To find the largest of 50 numbers Answer

Section Ref 1.7 Problem Solving: Algorithm Design Title What is the purpose of this algorithm?

Difficulty Medium

id testbank-bjlo-2-ch01-83

- 84. Consider a situation where you are buying videos online. The video seller charges \$21.50 as the price per video and \$6.75 as the handling cost for up to three videos. For every video purchased in addition to three videos, there is a handling charge of \$1.50. In addition, there is a 9 percent tax on the cost of the videos but not on the handlingCharges. Assuming that numVideos represents the number of videos you are purchasing, which of the following is the correct algorithm for calculating the total cost of your purchase?
 - A. Total charge for videos = 21.50 * numVideos

 Tax on the videos = total charge for videos * .9

 if (numVideos = 3) then handlingCharges = 6.75

 else handlingCharges = 1.50 * numVideos

 Total cost of order = total charge for videos + tax + handlingCharges
 - B. Total charge for videos = 21.50 * numVideos
 Tax on the videos = numVideos * .09
 if (numVideos < 3) then handlingCharges = 6.75
 else handlingCharges = 6.75 + 1.50 * (numVideos 3)
 Total cost of order = total charge for videos + tax + handlingCharges
 - C. Total charge for videos = 21.50 * numVideos
 Tax on the videos = total charge for videos * .09
 if (numVideos <= 3) then handlingCharges = 6.75
 else handlingCharges = 6.75 + 1.50 * (numVideos 3)
 Total cost of order = total charge for videos + tax + handlingCharges</p>

Answer

D. Total charge for videos = 21.50 * numVideos Tax on the videos = numVideos * .9

```
if (numVideos <= 3) then handlingCharges = 6.75
else handlingCharges = 1.50 * numVideos
Total cost of order = total charge for videos + tax + handlingCharges</pre>
```

Section Ref 1.7 Problem Solving: Algorithm Design

Title Which is the correct algorithm for calculating total cost with tax/shipping?

Difficulty Hard

id testbank-bjlo-2-ch01-84

- 85. Imagine you are planning to purchase a new cable TV dish. You are considering two cable TV dishes that have different purchase prices. Each channel service provider charges a different rate for each month that the cable TV dish is used. To determine which cable TV dish is the better buy, you need to develop an algorithm to calculate the total cost of purchasing and using each cable TV dish. What are all of the inputs that you need for this algorithm?
 - A. The cost of each cable TV dish and the rate for each month for using each cable TV dish
 - B. The cost of each cable TV dish, the rate per month for using each cable TV dish, and the number of months you would use the cable TV dish Answer
 - C. The cost of each cable TV dish and the number of months you would use the cable TV dish
 - D. The number of months you would use the cable TV dish and the rate per month for using each cable TV dish

Section Ref 1.7 Problem Solving: Algorithm Design

Title Which inputs do you need to calculate cost of purchasing/using cable dish?

Difficulty Medium

id testbank-bilo-2-ch01-85

86. Evaluate the pseudocode below to calculate the payment (pmt) with the following test values:

The total number of hours worked (workingHours) = 60

The rate paid for hourly work (rate) = 15

```
Input workingHours
Input rate
pmt = workingHours * rate
If workingHours > 40 then
    extraHours = workingHours - 40
    extraPmt = extraHours * rate * 2
    pmt = pmt + extraPmt
Output pmt
```

A. 1,200

B. 1,800

C. 900

D. 1,500 Answer

Section Ref1.7 Problem Solving: Algorithm DesignTitleEvaluate this pseudocode with these test values.

Difficulty Hard

id testbank-bjlo-2-ch01-86

87. Consider the following pseudocode. What does it produce?

Create a list of consecutive integers from two to n: (2, 3, 4, ..., n)
Initially, let p equal 2
Repeat following steps until p is greater than n
Strike from the list all multiples of p less than or equal to n

Find the first number remaining on the list greater than p Replace p with this number.

- A. All factorial numbers up to n
- B. All Fibonacci numbers up to n
- C. All prime numbers up to n Answer
- D. All even numbers up to n

Section Ref 1.7 Problem Solving: Algorithm Design Title What does the algorithm produce?

Difficulty Hard

id testbank-bjlo-2-ch01-87

88. Consider the following pseudocode. What does it produce?

Set n to 1
Set p to 1
Repeat until n equals 20
Multiply p by 2 and store result in p
Add 1 to n
Print p

- A. The product of first 20 numbers
- B. Two raised to the power 20 Answer
- C. The product of first 20 even numbers
- D. Factorial of 20

Section Ref 1.7 Problem Solving: Algorithm Design Title What does the algorithm produce?

Difficulty Medium

id testbank-bjlo-2-ch01-88

89. Consider the following pseudocode, what does it produce?

Set n to 1
Set p to 0
Set s to 0
Repeat until n equals 10
Calculate the square of n and store in s
Add s to p
Add 1 to n
Print p

- A. The product of first 10 numbers
- B. Two raised to the power 10
- C. Sum of square of numbers between 1 and 10 Answer
- D. The product of first 10 even numbers

Section Ref 1.7 Problem Solving: Algorithm Design Title What does the algorithm produce?

Difficulty Medium

id testbank-bjlo-2-ch01-89

90. Consider the following pseudocode, what does it produce?

```
Set n to 0
Set a to 0
Set b to 1
Set p to 1
Print p
Repeat until n equals 10
Set p to a + b
Set a to b
Set b to p
Add 1 to n
Print p

A. 1 2 3 4 5 6 7 8 9 10 11
B. 1 3 6 9 12 15 18 21 24 27 30
C. 1 1 2 3 5 8 13 21 34 55 89 Answer
D. 1 3 5 7 9 11 13 15 17 19 21
```

Section Ref 1.7 Problem Solving: Algorithm Design

What does the algorithm produce?

Difficulty Hard

Title

id testbank-bjlo-2-ch01-90

91. Consider the following pseudocode, what does it produce?

```
Set n to 1
Set p to 1
Repeat until n equals 6
Multiply p by n and store result in p
Add 1 to n
Print p

A. 1 1 2 3 5 8
B. 1 3 6 9 12 15
C. 1 2 6 24 120 720 Answer
D. 1 2 3 4 5 6
```

Section Ref 1.7 Problem Solving: Algorithm Design Title What does the algorithm produce?

Difficulty Medium

- 92. Which of these are true about writing algorithms in pseudocode?
 - I. The exact wording is not important
 - II. The sequence of steps should be ambiguous

III.	The	alg	orithm	should	d terminate
	1110	u15	OTIGITIE	biioaic	a commitment

- A. II and III only
- B. I and II only
- C. I and III only Answer
- D. I, II, and III

Section Ref 1.7 Problem Solving: Algorithm Design **Title** What is true when writing pseudocode?

Difficulty easy

id testbank-bjlo-2-ch01-92

- 93. A pseudocode step is executable when
 - A. it is precise about where to go next
 - B. it is guaranteed to terminate
 - C. it can be carried out in practice Answer
 - D. it is syntactically correct in a programming language like Java

Difficulty easy

id testbank-bjlo-2-ch01-93

- 94. The first step in describing an algorithm in pseudocode is
 - A. break the algorithm into smaller pieces
 - B. write the steps out in Java code
 - C. test the algorithm by working a problem
 - D. determine the inputs and the outputs Answer

Section Ref 1.7 Problem Solving: Algorithm Design

Title What is the first step in describing an algorithm?

Difficulty easy