Book Big Java, Early Objects

Edition 6

Title Introduction

1. Which statement best describes a computer program?

A. A program is a sequence of comments.

B. A program can decide what task it is to perform.

C. A program is a sequence of instructions and decisions that the computer carries out. Answer

D. A program can only perform one simple task.

Section Ref Section 1.1 Computer Programs

Title Which statement best describes a computer program?

Difficulty Easy

id testbank-bj-6-ch01-01

- 2. Which statement regarding computer programs is correct?
 - A. Computer programs can decide what task to perform.
 - B. Large and complex computer programs are generally written by only one programmer.
 - C. Computer programs are composed of extremely primitive operations. Answer
 - D. Small computer programs are not documented.

Title Which statement regarding computer programs is correct?

Section reference Section 1.1 Computer Programs

Difficulty Easy

id testbank-bj-6-ch01-02

- 3. What is an example of a typical instruction in a computer program?
 - A. Add up two numbers. Answer
 - B. Lay out a term paper.
 - C. Drive a car.
 - D. Display a fancy font.

Title What is an example of a typical instruction in a computer program?

Section reference Section 1.1 Computer Programs

Difficulty Easy

id testbank-bj-6-ch01-03

- 4. What does CPU stand for?
 - A. Computer Programming Unit
 - B. Computer Processing Unit
 - C. Central Processing Unit Answer
 - D. Central Programming Unit

Section Ref Section 1.2 The Anatomy of a Computer

Title What does CPU stand for?

Difficulty Easy

- 5. Which one of the following is NOT a function of a CPU?
 - A. Performing arithmetic operations
 - B. Processing data and controlling programs
 - C. Querying a database Answer
 - D. Fetching and storing data from storage and input devices

Section Ref Section 1.2 The Anatomy of a Computer Title Which one of the following is NOT a function of a CPU? Difficulty id testbank-bj-6-ch01-05 6. Which type of storage is made from electronic circuits that can store data? A. compact disk (CD) B. hard disk C. primary storage Answer D. secondary storage **Section Ref** Section 1.2 The Anatomy of a Computer Title Which type of storage is made from electronic circuits that can store data? **Difficulty** id testbank-bj-6-ch01-06 7. Which one of the following memory types provides storage that persists without electricity? A. primary storage B. RAM C. memory D. secondary storage Answer **Section Ref** Section 1.2 The Anatomy of a Computer Title Which one of the following memory types provides storage that persists without electricity? **Difficulty** testbank-bj-6-ch01-07 id 8. Which one of the following memory types provides storage that is slower and less expensive? A. primary storage B. secondary storage Answer C. peripheral device D. the transistor **Section Ref** Section 1.2 The Anatomy of a Computer Title Which one of the following memory types provides storage that is slower and less expensive? **Difficulty** testbank-bj-6-ch01-08 id 9. Which type of secondary storage consists of rotating platters coated with a magnetic material? A. hard disk Answer B. solid state drive C. compact disk (CD) D. memory **Section Ref** Section 1.2 The Anatomy of a Computer Which type of secondary storage consists of rotating platters coated with a magnetic material? Title **Difficulty** Easy testbank-bj-6-ch01-09 10. Some computers are self-contained units; others are interconnected through what? A. bus B. networks Answer

C. peripheral devices

D. power lines

Section Ref Section 1.2 The Anatomy of a Computer

Title Some computers are self-contained units; others are interconnected through what?

Difficulty Easy

id testbank-bj-6-ch01-10

- 11. Which is an example of a peripheral device?
 - A. the CPU
 - B. primary storage
 - C. motherboard
 - D. speakers Answer

Section Ref Section 1.2 The Anatomy of a Computer Title Which is an example of a peripheral device?

Difficulty Easy

id testbank-bj-6-ch01-11

- 12. Which memory type does not provide persistent storage?
 - A. secondary storage
 - B. hard disk
 - C. primary storage Answer

D. DVD

Title Which memory type does not provide persistent storage?

Section reference 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bj-6-ch01-12

- 13. Where must program instructions and data reside in order for the CPU to directly read and execute them?
 - A. memory Answer
 - B. bus
 - C. hard disk
 - D. somewhere on the computer network

Title Where must program instructions and data reside in order for the CPU to read and execute them?

Section reference 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bj-6-ch01-13

- 14. What term is used to refer to the computer instructions that are executed by a CPU?
 - A. virtual machine
 - B. machine code Answer
 - C. high-level code
 - D. instruction set

Section Ref Section 1.3 The Java Programming Language

Title What term is used to refer to the computer instructions that are executed by a CPU?

Difficulty Easy

- 15. What is the Java Virtual Machine?
 - A. A CPU that runs compiled Java code.
 - B. A library that makes it possible to write portable programs.
 - C. A program that simulates a real CPU running compiled Java code. Answer
 - D. A program that translates Java code into machine instructions.

Title What is the JVM? **Section reference** 1.3 The Java Programming Language Difficulty testbank-bj-6-ch01-15 id 16. What is the term used to refer to Java code that runs in a browser? A. applet Answer B. script C. html D. class Title What is the term used to refer to Java code that runs in a browser? Section reference 1.3 The Java Programming Language **Difficulty** id testbank-bj-6-ch01-16 17. What term is used to refer to languages that allow programmers to describe tasks at a higher conceptual level than machine code? A. virtual B. high-level Answer C. sophisticated D. conceptual **Section Ref** Section 1.3 The Java Programming Language Title What term is used to refer to languages that allow programmers to describe tasks at a higher conceptual level than machine code? Difficulty Easy id testbank-bj-6-ch01-17 18. What tool translates high-level instructions into low level machine code? A. debugger B. assembler C. compiler Answer D. linker **Section Ref** Section 1.3 The Java Programming Language What tool translates high-level instructions into low level machine code? Title **Difficulty** Easy testbank-bj-6-ch01-18 19. What tool translates Java source code into files that contain instructions for the Java Virtual Machine? A. linker B. compiler Answer C. assembler

D. interpreter

Section Ref Section 1.3 The Java Programming Language

Title What tool translates Java source code into files that contain instructions for the Java Virtual Machine?

Difficulty

- 20. Which statement is true about running a Java program on a different CPU?
 - A. You need different Java source code for each CPU.
 - B. You can take code that has been generated by the Java compiler and run it on different CPUs.
 - C. You need to compile the Java program for each CPU.

D. You cannot run the program on a different CPU because Java, being a high-level programming language, is machine dependent.

Section Ref Section 1.3 The Java Programming Langauge

Title Which statement is true about running a Java program on a different CPU?

Difficulty Medium

id testbank-bj-6-ch01-20

- 21. When was Java officially introduced?
 - A. 1991
 - B. 1995 Answer

C. 2000 D. 2005

Section Ref Section 1.3 The Java Programming Language Title When was Java officially introduced?

Difficulty Easy

id testbank-bj-6-ch01-21

- 22. Which statement best describes the portability characteristic of Java?
 - A. The same already-compiled Java programs will run on Windows, UNIX, Linux, or Macintosh operating systems without any change. Answer
 - B. The same Java compiler can be used on many operating systems.
 - C. There are only small differences between the Java programming language on different operating systems.
 - D. It is easy to change a Java program so that it will work on different operating systems.

Section Ref Section 1.3 The Java Programming Language

Title Which statement best describes the portability characteristic of Java?

Difficulty Easy

id testbank-bj-6-ch01-22

- 23. No matter which Java development environment you use, what happens to the Java source code in order for a Java program to execute?
 - A. The source code is automatically separated into many files.
 - B. The source code is backed up to a network storage facility.
 - C. A Java compiler converts all uppercase letters to lowercase.
 - D. A Java compiler translates the source code into class files. Answer

Title No matter which Java development environment you use, what happens to the Java source code in

order for a Java program to execute?

Section reference 1.4 Becoming Familiar With Your Programming Environment

Difficulty Easy

id testbank-bj-6-ch01-23

- 24. Why should you set aside time to become familiar with the programming environment?
 - A. The time you spend will prevent data loss without the need for backups.
 - B. The tools needed for Java programming are different from other software. Answer
 - C. Although computer systems vary widely, the Java programming environment is always the same.
 - D. The Java libraries are detailed and extensive.

Title Why should you set aside time to become familiar with the programming environment?

Section reference 1.4 Becoming Familiar With Your Programming Environment

Difficulty Easy

- 25. Suppose that a computer virus infects your computer and corrupts the files you were going to submit for your current homework assignment. What precaution could have saved you from a disastrously bad grade for this assignment?
 - A. Defragment the hard drive.
 - B. Purchase an anti-virus program to remove the virus from your computer.
 - C. Make regular backups of all your important files. Answer
 - D. Purchase an extended warranty for your computer.

Section Ref 1.4 Becoming Familiar With Your Programming Environment Title What can prevent you from losing files that get corrupted?

Difficulty Easy

id testbank-bj-6-ch01-25

- 26. Which statement regarding backup strategies for Java files is correct?
 - A. You should have multiple copies of your source files in different locations. Answer
 - B. You should regularly print out your work so you can retype it in case of data loss.
 - C. You should regularly back up the Java virtual machine instructions to prevent loss of valuable work.
 - D. Your compiler automatically makes backups of your source files.

Title Which one of the following statements regarding backup strategies for Java files is correct?

Section reference 1.4 Becoming Familiar With Your Programming Environment

Difficulty Easy

id testbank-bj-6-ch01-26

- 27. The line public class HelloPrinter indicates which declaration below?
 - A. Declaration of the variable class.
 - B. Declaration of the class HelloPrinter. Answer
 - C. Declaration of the variable public.
 - D. Declaration of the class public.

Title The line public class HelloPrinter indicates which declaration below?

Section reference 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bj-6-ch01-27

- 28. Every Java program consists of one or more of these fundamental building blocks.
 - A. class Answer
 - B. CPU
 - C. applet
 - D. parameter

Section Ref Section 1.5 Analyzing Your First Program

Title TB Every Java program consists of one or more of these fundamental building blocks.

Difficulty Easy

id testbank-bj-6-ch01-28

- 29. What is the name of the file that contains the Java source code for the public class HelloPrinter?
 - A. HelloPrinter

B. HelloPrinter.java Answer

C. HelloPrinter.class

D. HelloPrinter.txt

Section Ref Section 1.5 Analyzing Your First Program

Title What is the name of the file that contains the Java source code for this class?

Difficulty Easy

30. A contains se	quences of programming instructions that describe now to perform a particular task.
A. parameter	
B. label	
C. variable	
D. method Answer	
Section Ref	Section 1.5 Analyzing Your First Program
Title	A contains sequences of programming instructions that describe how to perform a particular
task.	
Difficulty id	Easy testbank-bj-6-ch01-30
	to an individual instruction inside a method?
A. statement Answer	
B. constant	
C. comment	
D. object	
Section Ref	Section 1.5 Analyzing Your First Program
Title	What term is used to refer to an individual instruction inside a method?
Difficulty	Easy
id	testbank-bj-6-ch01-31
32. In Java, every statement mu	st end with which symbol?
A	
B.)	
C. !	
D.; Answer	
Section Ref	Section 1.5 Analyzing Your First Program
Title	In Java, every statement must end with this symbol.
Difficulty	Easy
id	testbank-bj-6-ch01-32
33. What term is used to refer t	to a sequence of characters enclosed in quotation marks?
A. string Answer	
B. object	
C. comment	
D. variable	
Section Ref	Section 1.5 Analyzing Your First Program
Title	What term is used to refer to a sequence of characters enclosed in quotation marks?
Difficulty	Easy
id	testbank-bj-6-ch01-33
34. What term is used to refer t	to values supplied to a method that are needed to carry out its task?
A. class	
B. object	
C. argument Answer	
D. comment	
Section Ref	Section 1.5 Analyzing Your First Program
Title	What term is used to refer to values supplied to a method that are needed to carry out its task?
Difficulty	Easy
id	testbank-bj-6-ch01-34

35. Arguments supplied to methods are enclosed by which symbols? A. () Answer B. " " $C. \{ \}$ D. // **Section Ref** Section 1.5 Analyzing Your First Program Arguments supplied to methods are enclosed by which symbols? Title **Difficulty** testbank-bj-6-ch01-35 id 36. Whenever a method is called in Java, what must be specified? A. program name, method name B. strings, method name C. method name, arguments Answer D. the main method, arguments **Section Ref** Section 1.5 Analyzing Your First Program Title Whenever a method is called in Java, what must be specified? **Difficulty** id testbank-bj-6-ch01-36 37. What is the syntax for calling the println method on the object System.out? A. println ("Any message"). System.out; B. System.out("Any message").println; C. System.out.println("Any message"); Answer D. println(System.out, "Any message"); **Section Ref** Section 1.5 Analyzing Your First Program Title What is the syntax for calling the println method on the object System.out? **Difficulty** id testbank-bj-6-ch01-37 38. What is the name of the method in the given method call? System.out.println("Welcome"); A. "Welcome" B. System C. println Answer D. out **Section Ref** Section 1.5 Analyzing Your First Program Title What is the name of the method in the given method call? **Difficulty** testbank-bj-6-ch01-38 id 39. What is the argument in the given method call? System.out.println("Welcome"); A. out B. println C. "Welcome" Answer D. System **Section Ref** Section 1.5 Analyzing Your First Program Title What is the argument in the given method call?

Difficulty Easy

id testbank-bj-6-ch01-39

40. What is the output of the following Java statement?

System.out.println("4 + 6");

A. 10

B. 46

C. 4

D. 4 + 6 Answer

Section Ref Section 1.5 Analyzing Your First Program

Title What is the output of the following Java statement?

Difficulty Easy

id testbank-bj-6-ch01-40

41. What is the output of the following Java statement?

System.out.println(4 + 6);

A.4 + 6

B. 4

C. 10 Answer

D. 46

Section Ref Section 1.5 Analyzing Your First Program

Title What is the output of the following Java statement?

Difficulty Easy

id testbank-bj-6-ch01-41

42. Which statement is true about the following Java code fragment:

System.out.println("Hello!);

- A. There is a run-time error.
- B. There are no errors.
- C. There is a compile-time error. Answer
- D. There are multiple errors.

Title Which statement is true about the following Java code fragment?

Section reference 1.6 Errors **Difficulty** Easy

id testbank-bj-6-ch01-42

43. Assuming the programmer wishes to display "Hello!" on the screen, which statement is true about the following Java code fragment:

```
System.out.println("Helo!");
```

- A. There is a run-time error. Answer
- B. There are no errors.
- C. There is a compile-time error.
- D. There are multiple errors.

Title Which statement is true about the following Java code fragment?

Section reference 1.6 Errors **Difficulty** Easy

44. Assuming the programmer wishes to display "Hello!" on the screen, which statement is true about the following Java code fragment:

```
System.out.println("Hello!");
```

- A. There is a run-time error.
- B. There are no errors. Answer
- C. There is a compile-time error.
- D. There are multiple errors.

Title Which statement is true about the following Java code fragment?

Section reference 1.6 Errors
Difficulty Easy

id testbank-bj-6-ch01-44

45. Assuming the programmer wishes to display "Hello!" on the screen, which statement is true about the following Java code fragment:

```
System.out.printn("Helo!");
```

- A. There is a run-time error.
- B. There are no errors.
- C. There is a compile-time error.
- D. There are multiple errors. Answer

Title Which statement is true about the following Java code fragment?

Section reference 1.6 Errors
Difficulty Easy

id testbank-bj-6-ch01-45

46. Assume that the following Java statement is contained in the main method of the class named Hello:

```
System.out.printLine("Hello!");
```

What is the name of the file generated by the Java compiler?

- A. Hello.java
- B. Hello
- C. No file is generated due to an error. Answer
- D. Hello.class

Title What is the name of the file generated by the Java compiler?

Section reference 1.6 Errors
Difficulty Easy

id testbank-bj-6-ch01-46

- 47. What is a logic error?
 - A. A violation of the rules of the computer language.
 - B. A missing main method.
 - C. A program that is syntactically correct but does not do what it is supposed to do. Answer
 - D. An error that is so severe that it generates an exception.

Title What is a logic error?

Section reference 1.6 Errors
Difficulty Easy

id testbank-bj-6-ch01-47

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

A. logic error

B. compile-time error Answer

C. run-time error

D. typo

Section Ref Section 1.6 Errors

Title Term describing an error violating the programming language rules.

Difficulty Easy

id testbank-bj-6-ch01-48

- 49. Other than compile-time error, what is another term used to describe an error detected by the compiler that is a violation of the programming language rules?
 - A. typo
 - B. logic error
 - C. syntax error Answer
 - D. run-time error

Section Ref Section 1.6 Errors

Title Another term describing an error violating the programming language rules.

Difficulty Easy

id testbank-bj-6-ch01-49

- 50. What is the term used to describe an error causing a program to take an action that the programmer did not intend?
 - A. typo
 - B. run-time error Answer
 - C. compile-time error
 - D. syntax error

Section Ref Section 1.6 Errors

Title Term describing an error causing a program to take an action that the programmer did not intend)

Difficulty Easy

id testbank-bj-6-ch01-50

- 51. Other than run-time error, what is another term used to describe an error causing a program to take an action that the programmer did not intend?
 - A. syntax error
 - B. logic error Answer
 - C. mistake
 - D. compile-time error

Section Ref Section 1.6 Errors

Title Another term describing an error causing a program to take an action that the programmer did not intend)

Difficulty Easy

id testbank-bj-6-ch01-51

52. Which statement is true about the following Java statement:

```
System.out.Println("Welcome!");
```

- A. There are multiple errors.
- B. There are no errors.
- C. There is a run-time error.
- D. There is a compile-time error. Answer

Section Ref Section 1.6 Errors

Title Which statement is true about the following Java statement?

Difficulty Easy

53. Assuming the programmer wishes to output the phrase "Hello!", which of the following is true about the following Java statement:

```
System.out.println("Welcme!");
```

- A. There are multiple errors.
- B. There is a run-time error. Answer
- C. There are no errors.
- D. There is a compile-time error.

Section Ref Section 1.6 Errors

Title Which statement is true about the following Java statement?

Difficulty Easy

id testbank-bj-6-ch01-53

54. Assuming the programmer wishes to output the phrase "Welcome!", Which statement is true about the following Java statement:

```
System.out.println("Welcome!");
```

- A. There are no errors. Answer
- B. There is a run-time error.
- C. There are multiple errors.
- D. There is a compile-time error.

Section Ref Section 1.6 Errors

Title Which statement is true about the following Java statement?

Difficulty Easy

id testbank-bj-6-ch01-54

55. Assuming the programmer wishes to output the phrase "Welcome!", which of the following is true about the following Java statement.

```
System.out.Println("Wlcome!");
```

- A. There are no errors.
- B. There is a compile-time error.
- C. There is a run-time error.
- D. There are multiple errors. Answer

Section Ref Section 1.6 Errors

Title Which statement is true about the following Java statement?

Difficulty Easy

id testbank-bj-6-ch01-55

56. Assume that the main method of the class named Welcome does not contain any compile-time errors. What is the name of the file generated by the Java compiler?

```
A. Welcome.class Answer
```

- B. Welcome.java
- C. No additional file is generated.
- D. Welcome

Section Ref Section 1.6 Errors

Title Assume that the main method of the class named Welcome does not contain any compile-time errors.

What is the name of the file generated by the Java compiler?

Difficulty Easy

57. Which statement is true about the compilation process? A. The compiler will generate CPU specific instructions even if it detects an error. B. The compiler will generate Java virtual machine instructions even if it detects an error. C. The compiler will stop compiling when it finds the first error. D. The compiler will continue compiling after it finds an error. Answer **Section Ref** Section 1.6 Errors Title Which statement is true about the compilation process? **Difficulty** testbank-bj-6-ch01-57 id 58. Who or what is responsible for inspecting and testing the program to guard against logic errors? A. JVM B. programmer Answer C. end-user D. compiler **Section Ref** Section 1.6 Errors Title Who/what is responsible for ... guarding against logic errors? **Difficulty** id testbank-bj-6-ch01-58 59. If you get a sequence of error messages from the compiler that are increasingly off track, you should A. check for division by zero B. restructure your code to make it more readable C. check for spelling, capitalization, or missing quotation marks Answer D. include more of your code within themain method **Section Ref** Section 1.6 Errors Title If you get a sequence of error messages from the compiler that are increasingly off track, you should **Difficulty** id testbank-bj-6-ch01-59 60. The error message "cannot find symbol" is usually a good clue that what kind of error has been made? A. logic B. spelling Answer C. run-time D. division by zero **Section Ref** Section 1.6 Errors The error message "cannot find symbol" is usually a good clue that what kind of error has been made? Title Difficulty id testbank-bj-6-ch01-60 61. A sequence of steps that contains precise instructions for what to do at each step and where to go next is A. unambiguous Answer B. terminating C. executable D. documented Title A sequence of steps that contains precise instructions...? **Section reference** 1.7 Problem Solving: Algorithm Design **Difficulty** id testbank-bj-6-ch01-61

62. A sequence of steps that can be carried out in practice is A. unambiguous B. terminating C. executable Answer D. documented A sequence of steps that can be carried out in practice ...? Title **Section reference** 1.7 Problem Solving: Algorithm Design **Difficulty** testbank-bj-6-ch01-62 id 63. A sequence of steps that eventually comes to an end is A. unambiguous B. terminating Answer C. executable D. documented Title A sequence of steps that eventually comes to an end ...? **Section reference** 1.7 Problem Solving: Algorithm Design **Difficulty** id testbank-bj-6-ch01-63 64. What is the purpose of the following algorithm? input somenum Repeat the following steps for 14 times input variable1 if variable1 < somenum then somenum = variable1 print somenum A. To search for a particular number among 15 numbers. B. To find the largest among 15 numbers. C. To print out the 15 numbers. D. To find the smallest among 15 numbers. Title What is the purpose of the following algorithm? **Section reference** 1.7 Problem Solving: Algorithm Design **Difficulty** Easy id testbank-bj-6-ch01-64 65. Evaluate the given pseudocode to calculate the efficiency of a vehicle's fuel consumption using the following test values, rounded to one decimal place: The trip odometer reading (odometer) = 350The amount to fill the gas tank (amount) = 12 input odometer input amount output odometer/amount What is the final output? A. 27.7

```
C. 34.4
      D. 32.3
     Title
                               What is output of this pseudocode with these test values?
                               1.7 Problem Solving: Algorithm Design
     Section reference
     Difficulty
                               Medium
     id
                               testbank-bj-6-ch01-65
66. Evaluate the given pseudocode to calculate the weighted score for a student:
   The homework score (homework) = 95
   The weight of homework (hwWeight) = 35\%
   The exam score (exams) = 87
   The weight of exams(exWeight) = 65\%
   input homework
   input hwWeight
   input exams
   input exWeight
   output homework*hwWeight + exams*exWeight
   What is the final output?
      A. 89.20
      B. 89.80
                 Answer
      C. 87.80
      D. 92.20
     Title
                               What is the final output?
     Section reference
                               1.7 Problem Solving: Algorithm Design
     Difficulty
                               Medium
     id
                               testbank-bj-6-ch01-66
67. Evaluate the given pseudocode to calculate the payment (pmt) with the following test values:
   The total number of hours worked (working hours) = 60
   The rate paid for hourly work (rate) = 12
   input working_hours
   input rate
   pmt = working_hours * rate
   if working_hours > 40 then
     extra_hours = working_hours - 40
     extra_pmt = extra_hours * rate
     pmt = pmt + extra_pmt
   output pmt
   What is the final output?
      A. 960
```

B. 29.2

Answer

Answer

C. 240 D. 720	
Title Section reference Difficulty id	What is output of this pseudocode with these test values? 1.7 Problem Solving: Algorithm Design Hard testbank-bj-6-ch01-67
68. What term is used to refer to	an informal description of a sequence of steps for solving a problem?
A. assembly language ins B. pseudocode Answer C. machine instructions fo D. Java virtual machine in	or a specific CPU
Section Ref Title Difficulty id	Section 1.7 Problem Solving: Algorithm Design What term is used to refer to an informal description of a sequence of steps for solving a problem? Easy testbank-bj-6-ch01-68
69. What term is used to refer to	a sequence of steps for solving a problem that is unambiguous, executable, and terminating?
A. documentationB. pseudoprogramC. algorithm AnswerD. comments	
Section Ref Title and terminating? Difficulty id	Section 1.7 Problem Solving: Algorithm Design What term is used to refer to a sequence of steps for solving a problem that is unambiguous, executable, Easy testbank-bj-6-ch01-69
70. Which of the following option	ns is true about algorithms?
B. Algorithms are written C. Algorithms can replac	bed informally and can contain ambiguous steps. in a programming language. the source code in programs. gorithm for a problem before you can create a program to solve the problem. Answer
Section Ref Title Difficulty id	Section 1.7 Problem Solving: Algorithm Design Which of the following options is true about algorithms? Easy testbank-bj-6-ch01-70
71. A sequence of steps is unam	biguous when
A. it will eventually come B. it is clearly documente C. it can be carried out in D. there are precise instru	d.
Section Ref Title Difficulty id	Section 1.7 Problem Solving: Algorithm Design A sequence of steps is unambiguous when? Easy testbank-bj-6-ch01-71
72. A sequence of steps is execu	utable when

B. 840

A. it will eventually come to an end. B. it can be carried out in practice. Answer C. it is documented. D. there are precise instructions for what to do at each step and where to go next. **Section Ref** Section 1.7 Problem Solving: Algorithm Design Title A sequence of steps is executable when ...? **Difficulty** id testbank-bj-6-ch01-72 73. A sequence of steps is terminating when A. there are precise instructions for what to do at each step and where to go next. B. it will eventually come to an end. Answer C. it can be documented. D. it can be carried out in practice. **Section Ref** Section 1.7 Problem Solving: Algorithm Design Title A sequence of steps is terminating when ...? **Difficulty** id testbank-bj-6-ch01-73 74. What is the purpose of the following algorithm? input num Repeat the following steps for 9 times input var1 if var1 > num then num = var1print num A. To print out the 10 numbers B. To search for a particular number among 10 numbers C. To find the largest among 10 numbers Answer D. To find the smallest among 10 numbers **Section Ref** Section 1.7 Problem Solving: Algorithm Design Title What is the purpose of the following algorithm? **Difficulty** Easy testbank-bj-6-ch01-74 id 75. Evaluate the given pseudocode to calculate the efficiency of a vehicle's fuel consumption using the following test values: The trip odometer reading (odometer) = 300The amount to fill the gas tank (amount) = 15 input odometer input amount output odometer/amount What is the final output?

A. 15 B. 10 C. 30 D. 20

Answer

```
Section Ref
                               Section 1.7 Problem Solving: Algorithm Design
     Title
                               What is output of this pseudocode with these test values?
     Difficulty
                               Medium
                               testbank-bj-6-ch01-75
     id
76. Evaluate the given pseudocode to calculate the weighted score for a student:
   The program score (program) = 92
   The weight of programs (pgmWeight) = 40\%
   The exam score (exams) = 85
   The weight of exams(exWeight) = 60\%
   input program
   input pgmWeight
   input exams
   input exWeight
   output program*pgmWeight + exams*exWeight
   What is the final output?
      A. 89.20
       B. 87.80
                 Answer
      C. 89.80
      D. 92.20
     Section Ref
                               Section 1.7 Problem Solving: Algorithm Design
                               What is output of this pseudocode with these test values?
     Title
     Difficulty
                               Medium
                               testbank-bj-6-ch01-76
     id
77. Evaluate the given pseudocode to calculate the payment (pmt) with the following test values:
   The total number of hours worked (working hours) = 50
   The rate paid for hourly work (rate) = 10
   input working_hours
   input rate
   pmt = working_hours * rate
   if working_hours > 40 then
     extra_hours = working_hours - 40
     extra_pmt = extra_hours * rate
     pmt = pmt + extra_pmt
   end of if
   output pmt
   What is the final output?
      A. 540
       B. 580
      C. 500
```

D. 600 Answer

Section Ref Section 1.7 Problem Solving: Algorithm Design

Title What is output of this pseudocode with these test values?

Difficulty Hard

id testbank-bj-6-ch01-77

- 78. What is the correct order of the steps in the program development process:
 - i. Develop and describe the algorithm.
 - ii. Translate the algorithm into Java.
 - iii. Understand the problem.
 - iv. Compile and test the program.
 - v. Test the algorithm with different inputs.

A. iii, i, ii, iv, v

B. i, ii, iv, v, iii

C. iii, i, v, ii, iv Answer

D. i, iii, v, ii, iv

Section Ref Section 1.7 Problem Solving: Algorithm Design

Title What is the order of the steps in the program development process?

Difficulty Eas:

id testbank-bj-6-ch01-78

- 79. Pseudocode must be
 - i. Unambiguous.
 - ii. Syntactically correct code.
 - iii. Readable by a human.
 - iv. Indicative of results of an algorithm.

A. i, ii

B. i, ii, iii

C. i, iii, iv Answer

D. ii, iii, iv

Section Ref Section 1.7 Problem Solving: Algorithm Design

Title Pseudocode must be

Difficulty Easy