

1. Which statement best describes a computer program?

1. A program is a sequence of comments.
2. A program can decide what task it is to perform.
3. A program is a sequence of instructions and decisions that the computer carries out.
4. A program can only perform one simple task.

Section Ref

Section 1.1 Computer Programs

diff

1

Title

Which statement best describes a computer program?

type

mc

section

1.1 Computer Programs

id

testbank-bj-6-ch01-1

2. Which statement regarding computer programs is correct?

1. Computer programs can decide what task to perform.
2. Large and complex computer programs are generally written by only one programmer.
3. Computer programs are composed of extremely primitive operations.
4. Small computer programs are not documented.

diff

1

Title

Which statement regarding computer programs is correct?

type

mc

section

1.1 Computer Programs

Section reference

Section 1.1 Computer Programs

id

testbank-bj-6-ch01-2

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

1. Add up two numbers.
2. Lay out a term paper.
3. Drive a car.
4. Display a fancy font.

diff

1

Title

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

type

mc

section

1.1 Computer Programs

Section reference

Section 1.1 Computer Programs

id

testbank-bj-6-ch01-3

4. What does CPU stand for?

1. Computer Programming Unit
2. Computer Processing Unit
3. Central Processing Unit
4. Central Programming Unit

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1

Title

What does CPU stand for?

type

mc

section

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-4

5. Which one of the following is NOT a function of a CPU?

1. Performing arithmetic operations
2. Processing data and controlling programs
3. Querying a database
4. Fetching and storing data from storage and input devices

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1

Title

Which one of the following is NOT a function of a CPU?

type

mc

section

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-5

6. Which type of storage is made from electronic circuits that can store data?

1. compact disk (CD)
2. hard disk
3. primary storage
4. secondary storage

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1

Title

Which type of storage is made from electronic circuits that can store data?

type

mc

section

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-6

7. Which one of the following memory types provides storage that persists without electricity?

1. primary storage
2. RAM
3. memory
4. secondary storage

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1

Title

Which one of the following memory types provides storage that persists without electricity?

type

mc

section

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-7

8. Which one of the following memory types provides storage that is slower and less expensive?

1. primary storage

2. secondary storage
3. peripheral device
4. the transistor

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1

Title

Which one of the following memory types provides storage that is slower and less expensive?

type

mc

section

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-8

9. Which type of secondary storage consists of rotating platters coated with a magnetic material?

1. hard disk
2. solid state drive
3. compact disk (CD)
4. memory

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1

Title

Which type of secondary storage consists of rotating platters coated with a magnetic material?

type

mc

section

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-9

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

1. bus
2. networks
3. peripheral devices
4. power lines

Section Ref

Section 1.2 The Anatomy of a Computer

diff

1
Title Some computers are self-contained units; others are interconnected through what?
type
mc
section
1.2 The Anatomy of a Computer
id
testbank-bj-6-ch01-10

11. Which is an example of a peripheral device?

1. the CPU
2. primary storage
3. motherboard
4. speakers

Section Ref
Section 1.2 The Anatomy of a Computer
diff
1
Title
Which is an example of a peripheral device?
type
mc
section
1.2 The Anatomy of a Computer
id
testbank-bj-6-ch01-11

12. Which memory type does not provide persistent storage?

1. secondary storage
2. hard disk
3. primary storage
4. DVD

diff
1
Title
Which memory type does not provide persistent storage?
type
mc
section
1.2 The Anatomy of a Computer
Section reference
1.2 The Anatomy of a Computer
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?

1. memory
2. bus
3. hard disk
4. somewhere on the computer network

diff

1

Title

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

type

mc

section

1.2 The Anatomy of a Computer

Section reference

1.2 The Anatomy of a Computer

id

testbank-bj-6-ch01-13

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

1. virtual machine
2. machine code
3. high-level code
4. instruction set

Section Ref

Section 1.3 The Java Programming Language

diff

1

Title

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

type

mc

section

1.3 The Java Programming Language

id

testbank-bj-6-ch01-14

15. What is the Java Virtual Machine?

1. A CPU that runs compiled Java code.
2. A library that makes it possible to write portable programs.
3. A program that simulates a real CPU running compiled Java code.
4. A program that translates Java code into machine instructions.

diff

1
Title What is the JVM?
type mc
section 1.3 The Java Programming Language
Section reference 1.3 The Java Programming Language
id testbank-bj-6-ch01-15

16. What is the term used to refer to Java code that runs in a browser?

1. applet
2. script
3. html
4. class
diff 1
Title What is the term used to refer to Java code that runs in a browser?
type mc
section 1.3 The Java Programming Language
Section reference 1.3 The Java Programming Language
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?

1. virtual
2. high-level
3. sophisticated
4. conceptual
Section Ref Section 1.3 The Java Programming Language
diff 1
Title What term is used to refer to languages that allow programmers to describe tasks at a higher conceptual level than machine code?
type mc

section

1.3 The Java Programming Language

id

testbank-bj-6-ch01-17

18. What tool translates high-level instructions into low level machine code?

1. debugger
2. assembler
3. compiler
4. linker

Section Ref

Section 1.3 The Java Programming Language

diff

1

Title

What tool translates high-level instructions into low level machine code?

type

mc

section

1.3 The Java Programming Language

id

testbank-bj-6-ch01-18

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

1. linker
2. compiler
3. assembler
4. interpreter

Section Ref

Section 1.3 The Java Programming Language

diff

1

Title

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

type

mc

section

1.3 The Java Programming Language

id

testbank-bj-6-ch01-19

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

1. You need different Java source code for each CPU.
2. You can take code that has been generated by the Java compiler and run it on different CPUs.
3. You need to compile the Java program for each CPU.
4. 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 Language

diff

2

Title

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

type

mc

section

1.3 The Java Programming Language

id

testbank-bj-6-ch01-20

21. When was Java officially introduced?

1. 1991
2. 1995
3. 2000
4. 2005

Section Ref

Section 1.3 The Java Programming Language

diff

1

Title

When was Java officially introduced?

type

mc

section

1.3 The Java Programming Language

id

testbank-bj-6-ch01-21

22. Which statement best describes the portability characteristic of Java?

1. The same already-compiled Java programs will run on Windows, UNIX, Linux, or Macintosh operating systems without any change.
2. The same Java compiler can be used on many operating systems.
3. There are only small differences between the Java programming language on different operating systems.
4. 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

diff

1

Title

Which statement best describes the portability characteristic of Java?

type

mc

section

1.3 The Java Programming Language

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?

1. The source code is automatically separated into many files.
2. The source code is backed up to a network storage facility.
3. A Java compiler converts all uppercase letters to lowercase.
4. A Java compiler translates the source code into class files.

diff

1

Title

Â No matter which Java development environment you use, what happens to the Java source code in order for a Java program to execute?

type

mc

section

1.4 Becoming Familiar with Your Programming Environment

Section reference

1.4 Becoming Familiar With Your Programming Environment

id

testbank-bj-6-ch01-23

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

1. The time you spend will prevent data loss without the need for backups.
2. The tools needed for Java programming are different from other software.
3. Although computer systems vary widely, the Java programming environment is always the same.
4. The Java libraries are detailed and extensive.

diff

1

Title

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

type

mc
section
1.4 Becoming Familiar with Your Programming Environment
Section reference
1.4 Becoming Familiar With Your Programming Environment
id
testbank-bj-6-ch01-24

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?

1. Defragment the hard drive.
2. Purchase an anti-virus program to remove the virus from your computer.
3. Make regular backups of all your important files.
4. Purchase an extended warranty for your computer.

Section Ref
1.4 Becoming Familiar With Your Programming Environment
diff
1
Title
What can prevent you from losing files that get corrupted?
type
mc
section
1.4 Becoming Familiar with Your Programming Environment
id
testbank-bj-6-ch01-25

26. Which statement regarding backup strategies for Java files is correct?

1. You should have multiple copies of your source files in different locations.
2. You should regularly print out your work so you can retype it in case of data loss.
3. You should regularly back up the Java virtual machine instructions to prevent loss of valuable work.
4. Your compiler automatically makes backups of your source files.

diff
1
Title
Which one of the following statements regarding backup strategies for Java files is correct?
type
mc
section
1.4 Becoming Familiar with Your Programming Environment
Section reference
1.4 Becoming Familiar With Your Programming Environment

id

testbank-bj-6-ch01-26

27. The line `public class HelloPrinter` indicates which declaration below?

1. Declaration of the variable `class`.
2. Declaration of the class `HelloPrinter`.
3. Declaration of the variable `public`.
4. Declaration of the class `public`.

diff

1

Title

The line `public class HelloPrinter` indicates which declaration below?

type

mc

section

1.5 Analyzing Your First Program

Section reference

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-27

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

1. class
2. CPU
3. applet
4. parameter

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

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

type

mc

section

1.5 Analyzing Your First Program

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`?

1. `HelloPrinter`
2. `HelloPrinter.java`

3. HelloPrinter.class

4. HelloPrinter.txt

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

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

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-29

30. A _____ contains sequences of programming instructions that describe how to perform a particular task.

1. parameter

2. label

3. variable

4. method

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

A _____ contains sequences of programming instructions that describe how to perform a particular task.

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-30

31. What term is used to refer to an individual instruction inside a method?

1. statement

2. constant

3. comment

4. object

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What term is used to refer to an individual instruction inside a method?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-31

32. In Java, every statement must end with which symbol?

1. .

2.)

3. !

4. ;

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

In Java, every statement must end with this symbol.

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-32

33. What term is used to refer to a sequence of characters enclosed in quotation marks?

1. string

2. object

3. comment

4. variable

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What term is used to refer to a sequence of characters enclosed in quotation marks?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-33

34. What term is used to refer to values supplied to a method that are needed to carry out its task?

1. class
2. object
3. argument
4. comment

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What term is used to refer to values supplied to a method that are needed to carry out its task?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-34

35. Arguments supplied to methods are enclosed by which symbols?

1. ()
2. " "
3. {}
4. //

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

Arguments supplied to methods are enclosed by which symbols?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-35

36. Whenever a method is called in Java, what must be specified?

1. program name, method name
2. strings, method name
3. method name, arguments
4. the main method, arguments

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

Whenever a method is called in Java, what must be specified?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-36

37. What is the syntax for calling the `println` method on the object `System.out`?

1. `println("Any message").System.out;`
2. `System.out("Any message").println;`
3. `System.out.println("Any message");`
4. `println(System.out, "Any message");`

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What is the syntax for calling the `println` method on the object `System.out`?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-37

38. What is the name of the method in the given method call?

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

1. "Welcome"
2. System
3. println
4. out

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What is the name of the method in the given method call?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-38

39. What is the argument in the given method call?

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

1. out

2. println

3. "Welcome"

4. System

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What is the argument in the given method call?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-39

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

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

1. 10

2. 46

3. 4

4. 4 + 6

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What is the output of the following Java statement?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-40

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

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

1. 4 + 6
2. 4
3. 10
4. 46

Section Ref

Section 1.5 Analyzing Your First Program

diff

1

Title

What is the output of the following Java statement?

type

mc

section

1.5 Analyzing Your First Program

id

testbank-bj-6-ch01-41

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

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

1. There is a run-time error.
2. There are no errors.
3. There is a compile-time error.
4. There are multiple errors.

diff

1

Title

Which statement is true about the following Java code fragment?

type

mc

section

1.6 Errors

Section reference

1.6 Errors

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!");
```

1. There is a run-time error.
2. There are no errors.
3. There is a compile-time error.

4. There are multiple errors.

diff

1

Title

Which statement is true about the following Java code fragment?

type

mc

section

1.6 Errors

Section reference

1.6 Errors

id

testbank-bj-6-ch01-43

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!");
```

1. There is a run-time error.
2. There are no errors.
3. There is a compile-time error.
4. There are multiple errors.

diff

1

Title

Which statement is true about the following Java code fragment?

type

mc

section

1.6 Errors

Section reference

1.6 Errors

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

1. There is a run-time error.
2. There are no errors.
3. There is a compile-time error.
4. There are multiple errors.

diff

1

Title

Which statement is true about the following Java code fragment?

type

mc

section

1.6 Errors

Section reference

1.6 Errors

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

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

1. Hello.java
2. Hello
3. No file is generated due to an error.
4. Hello.class

diff

1

Title

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

type

mc

section

1.6 Errors

Section reference

1.6 Errors

id

testbank-bj-6-ch01-46

47. What is a logic error?

1. A violation of the rules of the computer language.
2. A missing main method.
3. A program that is syntactically correct but does not do what it is supposed to do.
4. An error that is so severe that it generates an exception.

diff

1

Title

What is a logic error?

type

mc

section

1.6 Errors

Section reference

1.6 Errors

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?

1. logic error
2. compile-time error
3. run-time error
4. typo

Section Ref

Section 1.6 Errors

diff

1

Title

Term describing an error violating the programming language rules.

type

mc

section

1.6 Errors

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?

1. typo
2. logic error
3. syntax error
4. run-time error

Section Ref

Section 1.6 Errors

diff

1

Title

Another term describing an error violating the programming language rules.

type

mc

section

1.6 Errors

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?

1. typo
2. run-time error
3. compile-time error
4. syntax error

Section Ref

Section 1.6 Errors

diff

1

Title

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

type

mc

section

1.6 Errors

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?

1. syntax error
2. logic error
3. mistake
4. compile-time error

Section Ref

Section 1.6 Errors

diff

1

Title

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

type

mc

section

1.6 Errors

id

testbank-bj-6-ch01-51

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

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

1. There are multiple errors.
2. There are no errors.

3. There is a run-time error.
4. There is a compile-time error.

Section Ref

Section 1.6 Errors

diff

1

Title

Which statement is true about the following Java statement?

type

mc

section

1.6 Errors

id

testbank-bj-6-ch01-52

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!");
```

1. There are multiple errors.
2. There is a run-time error.
3. There are no errors.
4. There is a compile-time error.

Section Ref

Section 1.6 Errors

diff

1

Title

Which statement is true about the following Java statement?

type

mc

section

1.6 Errors

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!");
```

1. There are no errors.
2. There is a run-time error.
3. There are multiple errors.
4. There is a compile-time error.

Section Ref

Section 1.6 Errors

diff

1

Title

Which statement is true about the following Java statement?

type

mc

section

1.6 Errors

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!");
```

1. There are no errors.
2. There is a compile-time error.
3. There is a run-time error.
4. There are multiple errors.

Section Ref

Section 1.6 Errors

diff

1

Title

Which statement is true about the following Java statement?

type

mc

section

1.6 Errors

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?

1. welcome.class
2. welcome.java
3. No additional file is generated.
4. welcome

Section Ref

Section 1.6 Errors

diff

1

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?

type
mc
section
1.6 Errors
id
testbank-bj-6-ch01-56

57. Which statement is true about the compilation process?

1. The compiler will generate CPU specific instructions even if it detects an error.
2. The compiler will generate Java virtual machine instructions even if it detects an error.
3. The compiler will stop compiling when it finds the first error.
4. The compiler will continue compiling after it finds an error.

Section Ref

Section 1.6 Errors

diff

1

Title

Which statement is true about the compilation process?

type

mc

section

1.6 Errors

id

testbank-bj-6-ch01-57

58. Who or what is responsible for inspecting and testing the program to guard against logic errors?

1. JVM
2. programmer
3. end-user
4. compiler

Section Ref

Section 1.6 Errors

diff

1

Title

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

type

mc

section

1.6 Errors

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

1. check for division by zero
2. restructure your code to make it more readable
3. check for spelling, capitalization, or missing quotation marks
4. include more of your code within the `main` method

Section Ref

Section 1.6 Errors

diff

1

Title

If you get a sequence of error messages from the compiler that are increasingly off track, you should

type

mc

section

1.6 Errors

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?

1. logic
2. spelling
3. run-time
4. division by zero

Section Ref

Section 1.6 Errors

diff

1

Title

The error message "cannot find symbol" is usually a good clue that what kind of error has been made?

type

mc

section

1.6 Errors

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 _____.

1. unambiguous
2. terminating

3. executable
4. documented
diff
1
Title
A sequence of steps that contains precise instructions...?
type
mc
section
1.7 Problem Solving: Algorithm Design
Section reference
1.7 Problem Solving: Algorithm Design
id
testbank-bj-6-ch01-61

62. A sequence of steps that can be carried out in practice is _____.

1. unambiguous
2. terminating
3. executable
4. documented
diff
1
Title
A sequence of steps that can be carried out in practice ...?
type
mc
section
1.7 Problem Solving: Algorithm Design
Section reference
1.7 Problem Solving: Algorithm Design
id
testbank-bj-6-ch01-62

63. A sequence of steps that eventually comes to an end is _____.

1. unambiguous
2. terminating
3. executable
4. documented
diff
1
Title
A sequence of steps that eventually comes to an end ...?
type
mc
section

1.7 Problem Solving: Algorithm Design

Section reference

1.7 Problem Solving: Algorithm Design

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
```

1. To search for a particular number among 15 numbers.
2. To find the largest among 15 numbers.
3. To print out the 15 numbers.
4. To find the smallest among 15 numbers.

diff

1

Title

What is the purpose of the following algorithm?

type

mc

section

1.7 Problem Solving: Algorithm Design

Section reference

1.7 Problem Solving: Algorithm Design

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) = 350

The amount to fill the gas tank (amount) = 12

```
input odometer
input amount
output odometer/amount
```

What is the final output?

1. 27.7
2. 29.2
3. 34.4
4. 32.3

diff
2
Title
What is output of this pseudocode with these test values?
type
mc
section
1.7 Problem Solving: Algorithm Design
Section reference
1.7 Problem Solving: Algorithm Design
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?

1. 89.20
2. 89.80
3. 87.80
4. 92.20

diff
2
Title
What is the final output?
type
mc
section
1.7 Problem Solving: Algorithm Design
Section reference
1.7 Problem Solving: Algorithm Design
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?

1. 960
2. 840
3. 240
4. 720

diff

3

Title

What is output of this pseudocode with these test values?

type

mc

section

1.7 Problem Solving: Algorithm Design

Section reference

1.7 Problem Solving: Algorithm Design

id

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?

1. assembly language instructions
2. pseudocode
3. machine instructions for a specific CPU
4. Java virtual machine instructions

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

1

Title

What term is used to refer to an informal description of a sequence of steps for solving a problem?

type
mc
section
1.7 Problem Solving: Algorithm Design
id
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?

1. documentation
2. pseudoprogram
3. algorithm
4. comments

Section Ref
Section 1.7 Problem Solving: Algorithm Design

diff

1

Title
What term is used to refer to a sequence of steps for solving a problem that is unambiguous, executable, and terminating?

type
mc
section
1.7 Problem Solving: Algorithm Design
id
testbank-bj-6-ch01-69

70. Which of the following options is true about algorithms?

1. Algorithms are described informally and can contain ambiguous steps.
2. Algorithms are written in a programming language.
3. Algorithms can replace the source code in programs.
4. You must create an algorithm for a problem before you can create a program to solve the problem.

Section Ref
Section 1.7 Problem Solving: Algorithm Design

diff

1

Title
Which of the following options is true about algorithms?

type
mc
section
1.7 Problem Solving: Algorithm Design
id
testbank-bj-6-ch01-70

71. A sequence of steps is unambiguous when _____

1. it will eventually come to an end.
2. it is clearly documented.
3. it can be carried out in practice.
4. 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

diff

1

Title

A sequence of steps is unambiguous when ...?

type

mc

section

1.7 Problem Solving: Algorithm Design

id

testbank-bj-6-ch01-71

72. A sequence of steps is executable when _____

1. it will eventually come to an end.
2. it can be carried out in practice.
3. it is documented.
4. 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

diff

1

Title

A sequence of steps is executable when ...?

type

mc

section

1.7 Problem Solving: Algorithm Design

id

testbank-bj-6-ch01-72

73. A sequence of steps is terminating when _____

1. there are precise instructions for what to do at each step and where to go next.
2. it will eventually come to an end.
3. it can be documented.
4. it can be carried out in practice.

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

1
Title A sequence of steps is terminating when ...?
type
mc
section
1.7 Problem Solving: Algorithm Design
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 = var1
print num
```

1. To print out the 10 numbers
2. To search for a particular number among 10 numbers
3. To find the largest among 10 numbers
4. To find the smallest among 10 numbers

Section Ref
Section 1.7 Problem Solving: Algorithm Design
diff
1
Title
What is the purpose of the following algorithm?
type
mc
section
1.7 Problem Solving: Algorithm Design
id
testbank-bj-6-ch01-74

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) = 300

The amount to fill the gas tank (amount) = 15

```
input odometer
input amount
output odometer/amount
```

What is the final output?

1. 15
2. 10
3. 30
4. 20

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

2

Title

What is output of this pseudocode with these test values?

type

mc

section

1.7 Problem Solving: Algorithm Design

id

testbank-bj-6-ch01-75

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?

1. 89.20
2. 87.80
3. 89.80
4. 92.20

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

2

Title

What is output of this pseudocode with these test values?

type

mc

section

1.7 Problem Solving: Algorithm Design

id

testbank-bj-6-ch01-76

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?

1. 540
2. 580
3. 500
4. 600

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

3

Title

What is output of this pseudocode with these test values?

type

mc

section

1.7 Problem Solving: Algorithm Design

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.

1. iii, i, ii, iv, v
2. i, ii, iv, v, iii
3. iii, i, v, ii, iv
4. i, iii, v, ii, iv

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

1

Title

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

type

mc

section

1.7 Problem Solving: Algorithm Design

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.

1. i, ii
2. i, ii, iii
3. i, iii, iv
4. ii, iii, iv

Section Ref

Section 1.7 Problem Solving: Algorithm Design

diff

1

Title

Pseudocode must be

type

mc

section

1.7 Problem Solving: Algorithm Design

id

testbank-bj-6-ch01-79