Which one of the following options refers to a collection of programs that a computer executes?

 A. Software Answer
 B. Assembler
 C. Instructions
 D. Source code

Section Ref 1.1

Title Which (term) refers to a collection of programs?

section 1.1 What Is Programming?

Difficulty Easy

id testbank-bc-2-ch01-1

- 2. Computers are machines that
 - A. Design computer programs
 - B. Execute programs Answer
 - C. Carry out a very narrow range of tasks
 - D. Are imprecise and slow

Section Ref 1.1

Title What kind of machines are computers?

section 1.1 What Is Programming?

Difficulty Easy

id testbank-bc-2-ch01-2

- 3. Computer programming is
 - A. The speed with which a computer operates
 - B. The collection of peripheral devices connected to a computer
 - C. The storage of data in the form of words and pictures
 - D. The act of designing and implementing a computer program Answer

Section Ref 1.1

Title What is computer programming? section 1.1 What Is Programming?

Difficulty Easy

id testbank-bc-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 on performing repetitive tasks.

Which one of the following options is correct?

- A. Only III is a valid statement.
- B. I and III are valid statements.
- C. I, II, and III are valid statements.
- D. I, III, and IV are valid statements. Answer

Section Ref 1.1

Title Which statement(s) regarding computers is (are) correct?

section 1.1 What Is Programming?

Difficulty Easy testbank-bc-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 one of the following options is correct?

- A. II and III are correct statements.
- B. I, II, III, and IV are correct statements.
- C. II, III, and IV are correct statements. Answer
- D. I and IV are correct statements.

Section Ref

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

section 1.1 What Is Programming?

Difficulty

id testbank-bc-2-ch01-5

- Writing the program for a computer game with motion, graphics, and sound usually requires 6.
 - A. one brilliant programmer writing a large number of simple instructions
 - a team of programmers writing a few complex instructions В.
 - C. one brilliant programmer writing a few complex instructions
 - D. a team of programmers writing a large number of simple instructions Answer

Section Ref

Title Who writes complex programs? section 1.1 What Is Programming?

Difficulty

id testbank-bc-3-ch01-6

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

Section Ref

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

Difficulty

id testbank-bc-2-ch01-6

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

Section Ref 1.2 TitleWhat is a chip with transistors called?section1.2 The Anatomy of a Computer

Difficulty Eas:

id testbank-bc-2-ch01-7

- 9. An example of an output device that interfaces between computers and humans is
 - A. The keyboard
 - B. The mouse
 - C. The speaker Answer
 - D. A microphone

Section Ref 1.2

Title What is an example of an output device that interfaces between humans and computers?

section 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-2-ch01-8

- 10. An example of an input device that interfaces between computers and humans is
 - A. The microphone Answer
 - B. The monitorC. The printerD. The speaker

Section Ref 1.2

Title What is an example of an input device that interfaces between humans and computers?

section 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-2-ch01-9

- 11. Programs that are not running are usually stored
 - A. in the CPU's memory.
 - B. on the computer monitor.
 - C. in secondary storage. Answer
 - D. on a backup device that is in a different physical location from the computer.

Section Ref 1.2

Title Where are programs usually stored when they are not running?

section 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-2-ch01-10

- 12. When a program begins to run,
 - A. It is moved from DVD to hard disk.
 - B. It is moved to the CPU's memory. Answer
 - C. It is moved from the CPU's memory to hard disk.
 - D. It must be connected to a computer network.

Section Ref 1.2

Title What happens when a program begins to run?

section 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-2-ch01-11

- 13. Which one of the following typically provides data persistence without electricity?
 - I. The CPU's memory

II. The hard diskIII. Secondary storageA. I, II

B. I, III

C. II, III Answer

D. I, II, III

Section Ref 1.2

Title Which storage type provides data persistence without electricity?

section 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-2-ch01-12

- 14. Which best describes the difference between primary and secondary storage?
 - A. primary storage is more expandable, while secondary storage is more flexible
 - B. primary storage is used only by the CPU, while secondary storage is used only by peripherals
 - C. primary storage is simpler to replace than secondary storage if it fails
 - D. primary storage is fast but costly, while secondary is slow, larger and cheaper Answer

Section Ref 1.2

Title Differences between primary and secondary storage

section 1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-3-ch01-14

- 15. A network controller is the device in a computer that
 - A. controls the internal network.
 - B. connects the computer to the internet or other network through a wire or wireless. Answer
 - C. connects the CPU to peripherals.
 - D. interfaces between a hard disk and other disks such as CDs and USB drives.

Section Ref 1.2

TitleWhat is a network controller?section1.2 The Anatomy of a Computer

Difficulty Easy

id testbank-bc-3-ch01-15

- 16. The instruction "1011 0011" for a computer is an example of
 - A. assembly language.
 - B. high-level language.
 - C. bit language.
 - D. machine language. Answer

Section Ref 1.3

Title Computer Instruction Types

section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-3-ch01-18

- 17. The C++ Language
 - A. was introduced in the 1980s.
 - B. is commonly used for embedded systems.
 - C. is commonly used for designing system software such as databases.
 - D. All of the above Answer

Section Ref 1.3
Title C++ Usage

section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-3-ch01-19

- 18. Consider a scenario in which you develop a C++ program on a computer that has a Pentium processor and compile the program into the corresponding machine language. What step should you take to run the same program on a computer that has a different processor?
 - A. Copy the compiled machine language instructions to the computer that has a different processor.
 - B. Develop the same program again on the computer that has a different processor and recompile the program.
 - C. Recompile the C++ program on the computer that has a different processor. Answer
 - D. You cannot run the program on a computer with a different processor because C++, being a high-level programming language, is machine dependent.

Section Ref 1.3

Title What step should you take to run a C++ program on a (different) processor?

section 1.3 Machine Code and Programming Languages

Difficulty Medium

id testbank-bc-2-ch01-13

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

Section Ref 1.3

Title What are the characteristics of high level programming languages?

section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-2-ch01-14

- 20. Which one of the following translates high-level descriptions into machine code?
 - A. Assembler
 - B. Linker
 - C. Compiler Answer
 - D. Editor

Section Ref 1.3

Title Which translates high-level descriptions into machine code?

section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-2-ch01-15

- 21. Computer scientists have devised something that allows programmers to describe tasks in words that are closer to the syntax of the problems being solved. This is called
 - A. Embedded system
 - B. Machine instructions
 - C. High level programming language Answer
 - D. Compiler

Section Ref 1.3

Title What are the tools used to describe and solve high-level problems?

section 1.3 Machine Code and Programming Languages

Difficulty Easy

B. CompilersC. CPUs

D. Peripheral devices

Section Ref 1.3

Title What are small control devices called?

section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-2-ch01-17

- 23. What is one of the benefits of using a high-level programming language like C++?
 - A. Its syntax is very similar to the hardware instruction set
 - B. No tools other than a text editor are required for programming
 - C. Statements in the high-level language are just like English
 - D. Problems solved in a high-level language are independent of the underlying computer hardware Answer

Section Ref 1.3

Title What are the benefits of using high level languages? section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-2-ch01-18

- 24. What name do you use for small computers that are programmed to control automobile engines and cell phones?
 - A. Mainframe computers
 - B. Mini computers
 - C. Embedded systems Answer
 - D. Virtual systems

Section Ref 1.3

Title What are small computers programmed to control engines and phones called?

section 1.3 Machine Code and Programming Languages

Difficulty Easy

id testbank-bc-2-ch01-19

- 25. An integrated development environment (IDE) bundles tools for programming into a unified application. What kinds of tools are usually included?
 - A. An editor and a compiler Answer
 - B. A web browser
 - C. Presentation tools
 - D. A multimedia creation package

Section Ref 1.4

Title What kinds of tools are included in an IDE?

section 1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

id testbank-bc-2-ch01-20

- 26. What is the difference between an editor and a compiler?
 - A. An editor converts program files into an executable program; a compiler allows program files to be written and stored
 - B. An editor allows program files to be written and stored; a compiler produces an organized list of files

- 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 converts program files into an executable program Answer

Section Ref 1.4

TitleWhat is the difference between an editor and a compiler?section1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

id testbank-bc-2-ch01-21

- 27. Suppose you define a C++ symbol MadCitie and another symbol MadCitie. What can be said about these two symbols?
 - A. Since C++ is case-sensitive, these are considered to be completely distinct Answer
 - B. Because "citie" is misspelled, the C++ compiler will reject it
 - C. Since these C++ symbols both have the same letters, they are considered to be the same
 - D. They are the correct length because all C++ symbols must have exactly eight characters.

Section Ref 1.4

Title What are some of the rules for defining and understanding variable names in C++?

section 1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

id testbank-bc-2-ch01-22

- 28. What statements about the integrated development environment (IDE) are true?
 - I. You may run an executable program even after exiting the IDE
 - II. The IDE contains a program called the linker, which is required to build an executable program
 - III. Translating C++ source code into machine code is not enough to actually run the program

A. I, II

B. I, III

C. II, III

D. I, II, III Answer

Section Ref 1.4

Title What are the steps in building an executable file in C++? section 1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

id testbank-bc-2-ch01-23

- 29. 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
 - A. Only I is correct
 - B. I, II, and III are correct
 - C. Only I and II are correct Answer
 - D. Only III is correct

Section Ref 1.4

TitleHow is your integrated development environment organized?section1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

- II. You should check your backups only if you have lost your current working copy.
- III. Have more than one backup, from various stages of your development work.
 - A. I. II

30.

- В. I, III Answer
- C. II, III
- D. I, II, III

Section Ref 1.5

Title Which snippet compiles without errors and displays "hello"?

from testbank-bc-2-ch01-25

section 1.4 Becoming Familiar with Your Programming Environment

Difficulty

testbank-bc-3-ch01-33 id

- 31. Which of the following are NOT windows displayed in a typical IDE?
 - A. The compiler

Answer

- B. The editor
- C. The folder/file hierarchy or directory tree
- D. The message window

Section Ref 1.4

Title Which of the following are NOT windows displayed in a typical IDE?

section 1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

testbank-bc-3-ch01-34

- 32. Which of the following are NOT types of code used by an IDE?
 - A. Source code
 - B. Machine code
 - C. Native code Answer
 - D. Library code

Section Ref 1.4

Title Which of the following are NOT types of code used by an IDE? 1.4 Becoming Familiar with Your Programming Environment section

Difficulty Easy

testbank-bc-3-ch01-35

- 33. Which one of the following statements is true about a C++ compiler?
 - A. It translates the object code into the source code.
 - B. It translates the library code into the machine code.
 - C. It translates the source code into the machine code. Answer
 - D. It translates the machine code into the source code.

Section Ref 1.8

Title Which statement is true about a C++ compiler?

section 1.4 Becoming Familiar with Your Programming Environment

Difficulty Easy

id testbank-bc-2-ch01-62

34. Which one of the following programs combines the machine code with the library code to build an executable file?

A. Assembler

B. Linker Answer

C. Editor

D. Compiler

Section Ref 1.8

Title Which program combines machine code with library code to build an executable file?

section 1.4 Becoming Familiar with Your Programming Environment

Difficulty Medium

id testbank-bc-2-ch01-63

35. Which one of the following statements is true about C++ syntax?

A. The semicolon terminates statements. Answer

B. The double quote character cannot appear within a character string.

C. The tab character is the only way to produce "whitespace".

D. The single quote character means the same thing as the double quote character.

Section Ref 1.5

Title Which statements are true about C++ syntax?

section 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bc-2-ch01-26

36. Characters that are grouped together between double quotes (quotation marks) in C++ are called

A. keywords

B. syntax

C. symbols

D. strings Answer

Section Ref 1.5

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

section 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bc-2-ch01-27

37. To include a literal special character, such as the double quote, inside a character string, use the following preceding the character:

A. a duplicate copy of the same character

B. the dollar sign \$

C. the backslash Answer

D. the single quote

Section Ref Special Topic 1.1

Title How are special characters designated and represented in C++?

from testbank-bc-2-ch01-28

section 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bc-3-ch01-40

38. The two lines of code below both produce the same output. Why?

- A. Since there are no numerical / arithmetic operators, the spaces don't matter.
- B. In fact, the two statements do not produce the same output.
- C. Spacing between symbols in C++ doesn't affect statements. Answer
- D. Because there are no escape characters.

Section Ref 1.5

Title Why do the example lines of code behave the way they do (understanding whitespace)?

section 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bc-2-ch01-29

39. What is the output from this code snippet?

```
cout << "The sum is " << "8 + 6";
```

- A. The sum is 14
- B. The sum is 48
- C. The sum is 2
- D. The sum is 8 + 6 Answer

Section Ref 1.5

Title What is the output from this code? (arithmetic statements versus character strings)

section 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bc-2-ch01-30

- 40. Which of the following statements should you include in a C++ program that performs an input or output operation with cin and/or cout?
 - I. using namespacestd;
 - II. #include<iostream>
 - III. int main()
 - IV. #include "iostream"
 - A. II only
 - B. All of the above
 - C. II and III only
 - D. I, II, and III Answer

Section Ref 1.5

Title Which statements should you include in program with input/output operations?

from testbank-bc-2-ch01-31

section 1.5 Analyzing Your First Program

Difficulty Easy

id testbank-bc-3-ch01-43

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

```
#include <iostream>
using namespace std;

int main()
{
   cout << "Goodbye" << endl << "Come again" << endl;</pre>
```

```
A. Goodbye Come again
       B. Goodbye
          Come again
            Answer
       C. Goodbye
          Come again
       D. No output due to compilation errors
     Section Ref
     Title
                               What is output of code snippet (using cout and endl)?
     section
                               1.5 Analyzing Your First Program
     Difficulty
                               Easy
                               testbank-bc-2-ch01-32
     id
42. Which one of the following code snippets compiles without errors and displays the output "hello" on the screen?
       A. #include <iostream>
         using namespace std;
          int main();
             cout << hello << endl;</pre>
             return 0;
       B. #include <iostream>
         using namespace std;
          int main();
             cout << 'hello' << endl;</pre>
             return 0;
       C. #include <iostream>
          using namespace std;
          int main()
             cout << "hello" << endl;</pre>
             return 0;
          }
            Answer
       D. #include <iostream>
         using namespace std;
          int main()
             cout << "hello" << "endl";</pre>
             return 0;
          }
     Section Ref
     Title
                               Which snippet compiles without errors and displays "hello"?
     section
                               1.5 Analyzing Your First Program
     Difficulty
```

testbank-bc-2-ch01-33

return 0;

id

43. Which one of the given code snippet represents the correct way to print the following output?

HI

```
"HELLO"
```

```
A. #include <iostream>
   using namespace std;
   int main()
       cout << HI << endl << "HELLO" << endl;</pre>
       return 0;
 B. #include <iostream>
   using namespace std;
    int main()
       cout << "HI << endl << HELLO";</pre>
       return 0;
 C. #include <iostream>
   using namespace std;
   int main()
       cout << 'HI' << endl << '"HELLO"';
       return 0;
    }
 D. #include <iostream>
   using namespace std;
    int main()
       cout << "HI" << endl << "\"HELLO\"" << endl;</pre>
       return 0;
      Answer
Section Ref
                        1.5
Title
                        Which snippet correctly prints (output on two lines)?
                        1.5 Analyzing Your First Program
section
Difficulty
                        Medium
                        testbank-bc-2-ch01-34
id
```

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

```
#include <iostream>
using namespace std;

int main()
{
   cout << 2 * 2 << 6;
   return 0;
}

A. 2 * 26
B. 226
C. 46 Answer
D. 4 6

Section Ref
Title

1.5
TB 1.14 What is output of snippet (with expressions sent to cout)?</pre>
```

section 1.5 Analyzing Your First Program **Difficulty** id testbank-bc-2-ch01-35

- 45. Which of the following statements is valid regarding endl?
 - I. The endl symbol denotes the end of line marker.
 - II. When the end of line marker is sent out to cout, the cursor is moved to the first column in the next screen row.
 - III. endl is included inside double quotes if the cout contains a string.
 - A. I only. В. II only,
 - C. I and II only Answer
 - D. I, II and III.

Section Ref 1.5

Title Which statement is true about the usage of endl?

from testbank-bc-2-ch01-36

1.5 Analyzing Your First Program section

Difficulty Medium

testbank-bc-3-ch01-48 id

- 46. Which of the following symbols is used to terminate a C++ program statement?
 - A. Colon
 - B. Semicolon Answer
 - C. Single quote
 - D. Period

Section Ref 1.5

Which symbol is used to terminate a C++ program statement? Title

section 1.5 Analyzing Your First Program

Difficulty Easy

testbank-bc-2-ch01-37

- 47. Which of the following statements is valid with respect to semicolons in C++?
 - A. A semicolon is used to denote the end of a statement. Answer
 - B. A semicolon is used to terminate the #include statement.
 - C. You cannot use a semicolon to terminate the "using namespace" statement.
 - D. You cannot put a semicolon within double quotation marks.

Section Ref

Title Which statement is true about semicolon usage?

from testbank-bc-2-ch01-38

section 1.5 Analyzing Your First Program

Difficulty Medium

testbank-bc-3-ch01-50 id

- 48. Which of the following statements are valid with respect to the main function?
 - A. The opening and closing parentheses after the function name main are optional.
 - B. A semicolon is required after the declaration int main ()
 - C. A semicolon is required after the closing curly braces of the main function.
 - D. Every executable C++ program has a main function. Answer

Section Ref

Title Which statement is true about the main function?

from testbank-bc-2-ch01-39

section 1.5 Analyzing Your First Program **Difficulty** id testbank-bc-3-ch01-51 49. Which of the given cout statements generates the following output? ///"\\\ $A. \text{cout} << "///" \\ " << endl;$ Answer $D. \text{cout} << ///" \setminus \setminus << \text{endl};$ **Section Ref** 1.5 Title Which cout statement generates this output? section 1.5 Analyzing Your First Program **Difficulty** testbank-bc-2-ch01-41 id Which of the following statements enables the use of input and output operations in a C++ program? A. using namespace std; B. #include <iostream> Answer C. int main() D. return 0; **Section Ref** 1.5 Title Which statements enables the use of input/output operations? testbank-bc-2-ch01-42 from section 1.5 Analyzing Your First Program **Difficulty** id testbank-bc-3-ch01-54 What is the output of the following code snippet? #include <iostream> using namespace std; int main() cout << "Hello\n" << " Good Day!" << endl;</pre> return 0; A. Hello \n Good Day! B. Hello Good Day! Answer C. Hello Good Day!

Section Ref

50.

51.

}

D.

Title What is output of snippet (with cout, and endl)?

No output due to compilation errors

fromtestbank-bc-2-ch01-43section1.5 Analyzing Your First ProgramDifficultyEasyidtestbank-bc-3-ch01-55

52. Which one of the following code snippets compiles without errors and displays the output "Hello world" on the screen?

```
A. #include <iostream>
    using namespace std;
    int main();
       cout << Hello world << endl;</pre>
       return 0;
 B. #include <iostream>
    using namespace std;
    int main();
       cout << 'Hello world' << endl;</pre>
       return 0;
 C. #include <iostream>
    using namespace std;
    int main()
       cout << "Hello world" << endl;</pre>
       return 0;
    }
      Answer
 D. #include <iostream>
    using namespace std;
    int main()
       cout << "Hello world" << "endl";</pre>
       return 0;
    }
Section Ref
Title
                        Which snippet compiles without errors and displays "Hello world"?
section
                        1.5 Analyzing Your First Program
Difficulty
                        testbank-bc-2-ch01-44
id
```

53. Which one of the given code snippets represents the correct way to print the following output?

GOOD MORNING

"AMERICA"

```
A. #include <iostream>
  using namespace std;
  int main()
  {
     cout << GOOD MORNING << endl << "AMERICA" << endl;
     return 0;
  }

B. #include <iostream>
  using namespace std;
  int main()
```

```
{
             cout << "GOOD MORNING << endl << AMERICA";</pre>
             return 0;
      C. #include <iostream>
         using namespace std;
         int main()
         {
             cout << 'GOOD MORNING' << endl << '"AMERICA"';</pre>
             return 0;
      D. #include <iostream>
         using namespace std;
         int main()
             cout << "GOOD MORNING" << endl << "\"AMERICA\"" << endl;</pre>
             return 0;
         }
           Answer
     Section Ref
                               1.5
     Title
                               Which snippet correctly prints (output on two lines)?
     section
                               1.5 Analyzing Your First Program
     Difficulty
                               Medium
                               testbank-bc-2-ch01-45
54. What is the output of the following code snippet?
   #include <iostream>
   using namespace std;
   int main()
       cout << 4 * 4 << 12;
       return 0;
      A. 4 * 412
      B. 4412
      C. 1612 Answer
      D. 28
     Section Ref
                               1.5
     Title
                               What is output of snippet (with expressions sent to cout)?
     section
                               1.5 Analyzing Your First Program
     Difficulty
                               Medium
                               testbank-bc-2-ch01-46
```

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

}

```
#include <iostream>
using namespace std;
int main()
   cout << "\"cout << endl\" prints out a new line to " << endl;</pre>
   cout << "the standard output stream" << endl;</pre>
   return 0;
}
```

A. The code snippet gives a compilation error because the cout statement is inside the quotation marks

B. cout prints out a new line to

the standard output stream

C. cout << endl prints out a new line to

the standard output stream

D. "cout << endl" prints out a new line to

the standard output stream

Answer

Section Ref 1.5

Title What is the output of snippet (with complex cout statement)?

section 1.5 Analyzing Your First Program

Difficulty Medium

id testbank-bc-2-ch01-47

56. Which of the given cout statements generates the following output?

\\\"'///

- $A. \text{cout} << " \setminus \'' / / " << endl;$
- $B. \text{cout} << "\\\\\"//" << endl; Answer$
- $C. cout << "\\\\""////" endl;$
- $D. cout << \ \ \ \ \ << endl;$

Section Ref 1.5

Title Which cout statement generates this output?

section 1.5 Analyzing Your First Program

Difficulty Hard

id testbank-bc-2-ch01-48

57. What, if anything, is wrong with the following code snippet?

```
cout << "Hello, World!" << endl
return 0;</pre>
```

- A. The double quotes should be single quotes.
- B. The < < symbols are in the wrong direction, and should be > >.
- C. There is a missing semicolon. Answer
- D. Nothing is wrong with the snippet.

Section Ref 1.5: Common Error 1.1

Title What type of error is in this snippet? section Common Error 1.1 Omitting Semicolons

Difficulty Easy

id testbank-bc-3-ch01-61

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

- A. The code snippet gives a compilation error because the cout statement is inside the quotation marks B. cout prints out a new line to the standard output stream C. cout << endl prints out a new line to the standard output stream Answer D. prints out a new line to the standard output stream **Section Ref** 1.5 Title What is the output of snippet (with complex cout statement)? section Special Topic 1.1 Escape Sequences **Difficulty** Medium testbank-bc-2-ch01-40 What is an equivalent way to produce the same output as the following single statement? cout << "Hello, World!" << endl;</pre> A. cout << "Hello, World!\n";</pre> В. cout << "Hello, "; cout << "World!" << endl;</pre> C. cout << "Hello, Wor"; cout << "ld!\n";</pre> D. All of the above Answer **Section Ref** 1.5: Special Topic 1.1 Title What is an equivalent way to produce the same output as the following single statement? section Special Topic 1.1 Escape Sequences Difficulty Easy testbank-bc-3-ch01-62 60. What kind of error is it when your program has a syntax error? A. Compile-time error Answer B. Logic error C. Run-time error D. Exception **Section Ref** Title Which kind of error is it when programs do not compile? section 1.6 Errors Difficulty Easy testbank-bc-2-ch01-49 61. When a compiler finds a syntax error in a program, what happens? A. The compiler goes ahead and produces an executable program but leaves out the statement where there was an error.
- B. The compiler stops immediately. C. The compiler requests input from the user before it will continue.

D. The compiler continues and may report about other errors but does not produce an executable file.

Section Ref

59.

id

Title What happens when the compiler finds a syntax error?

section 1.6 Errors Difficulty Easy

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

```
coutt << "Hello, World!" << endl;</pre>
```

A. No error: the code is correct

id

- B. Logic error: the program will run until it comes to this statement
- C. Syntax error: the program will not compile Answer
- D. Exception: the statement will generate an exception

Section Ref 1.6

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

section 1.6 Errors
Difficulty Easy

id testbank-bc-2-ch01-51

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

```
cout << "The sum of 8 and 12 is " << 8 * 12 << endl;</pre>
```

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

Section Ref 1.6

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

section 1.6 Errors
Difficulty Easy

id testbank-bc-2-ch01-52

- 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 in a statement that does not conform to the syntax of the programming language.
 - C. An error in the hardware from overheating.
 - D. An error introduced by the compiler when it guesses at how to fix a syntax error.

Section Ref

Title What is the definition of a logic error?

section 1.6 Errors
Difficulty Easy

id testbank-bc-2-ch01-53

- 65. How do programmers find exceptions and run-time errors?
 - A. Running the compiler and examining output messages
 - B. Testing the compiled program with a variety of input values An
 - C. Carefully reading over the program code
 - D. Compiling with the run-time-error detection option activated

Section Ref 1.6

Title How do programmers find exceptions and run-time errors?

from testbank-bc-2-ch01-54

section 1.6 Errors
Difficulty Easy

id testbank-bc-3-ch01-68

66. The programmer, not the compiler, is responsible for testing a program to identify

- A. Syntax errors
- B. Compile-time errors
- C. Run-time errors Answer
- D. Undefined symbols

Section Ref 1.6

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

section 1.6 Errors
Difficulty Easy

id testbank-bc-2-ch01-55

- 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. Syntax errors Answer
 - B. Run-time errors
 - C. Logic errors
 - D. Out-of-memory errors

Section Ref 1.6

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

section1.6 ErrorsDifficultyEasy

id testbank-bc-2-ch01-56

- 68. Which of the following statements would generate a compile-time error?
 - A. cout << "eleven" << endl;
 - B. cout << eleven << endl; Answer
 - C. cout << 4 + 7 << endl;
 D. cout << "4 + 7" << endl;</pre>

Section Ref

Title Which of the following statements would generate a compile-time error?

section 1.6 Errors
Difficulty Easy

id testbank-bc-3-ch01-71

- 69. Which of the following statements represents a logic error, but not a compile-time error?
 - A. cout << "The sum of 5 and 6 is 10" << endl; Answer
 - B. cout << The sum of 5 and 6 is 10 << endl;
 - C. cout << "The sum of 5 and 6 is 11" << endl;
 - D. cout << "The sum of 5 and 6 is " << 5 + 6 << endl;

Section Ref 1.6

Title Which of the following statements represents a logic error, but not a compile-time error?

section 1.6 Errors
Difficulty Easy

id testbank-bc-3-ch01-72

70. The following code snippet is written to calculate the miles per gallon of two cars and print out both values.

```
#include <iostream>
using namespace std;
int main()
{
   int miles1 = 420;
   int miles2 = 500;
   int gallons1 = 10;
   int gallons2 = 15;
```

```
cout << miles1 / gallons1 << endl;
cout << miles1 / gallons2 << endl;
return 0;
}
```

Based on the given code snippet, identify the correct statement:

- A. The output is correct, and there are no errors.
- B. The mileage of the first car is calculated correctly, but the mileage of the second car is incorrect due to a logic error.

 Answer
- C. The mileage of the second car is calculated correctly, but the mileage of the first car is incorrect due to a logic error.
- D. The mileage of both cars is incorrect due to a logic error.

Section Ref 1.7

Title Which is true about this snippet that calculates and prints mpg?

section 1.6 Errors
Difficulty Hard

id testbank-bc-2-ch01-57

71. What is the error in the following code snippet, which is used for calculating the average score for a student in three subjects?

```
#include <iostream>
int main()
{
   int subject1 = 75;
   int subject2 = 65;
   int subject3 = 70;

   int average = subject1 + subject2 + subject3 / 3;
   cout << "The average is " << average;
   return 0;
}</pre>
```

- A. The code snippet has a syntax error from an incorrect use of arithmetic operators.
- B. The code snippet has a logic error. Answer
- C. The code snippet uses variable names that are not allowed in C++.
- D. There is no error; the code snippet is completely accurate.

Section Ref 1.7

Title Is there an error in snippet that calculates average score?

section 1.6 Errors
Difficulty Hard

id testbank-bc-2-ch01-58

- 72. Who or what is responsible for inspecting and testing the program to guard against logic errors?
 - A. Programmer Answer
 - B. Linker
 - C. Compiler
 - D. End-user

Section Ref 1.7

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

section 1.6 Errors
Difficulty Easy

id testbank-bc-2-ch01-59

- 73. While developing a program, the programmer adds the discount amount to the total payable instead of reducing the discount amount from the total. What type of an error does this denote?
 - A. A syntax error
 - B. A logic error Answer
 - C. A human error
 - D. A compilation error

Section Ref 1.7

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

section1.6 ErrorsDifficultyMedium

id testbank-bc-2-ch01-60

74. What type of error can you identify in the following code snippet?

```
#include <iostream>
int main
{
   int a = 10;
   int b = 20;
   int c = a + b;
   return 0;
}
```

- A. A logic error.
- B. A syntax error. Answer
- C. A run-time error.
- D. No errors; the code snippet is completely accurate.

Section Ref 1.7

Title What type of error is in this snippet?

section 1.6 Errors
Difficulty Medium

id testbank-bc-2-ch01-61

75. What if anything is wrong with the following code?

```
#include <iostream>
using namespace std

int Main()
{
   cout << "Hello, World!" << endl;
   return 0;
}</pre>
```

- A. Nothing is wrong.
- B. It is missing a semicolon.
- C. Main should be lowercase main.
- D. Both b and c are correct. Answer

Section Ref 1.6: Common Error 1.2

Title What if anything is wrong with the following code?

section Common Error 1.2 Misspelling Words

Difficulty Easy

id testbank-bc-3-ch01-73

76. What is the purpose of the following algorithm?

```
num = 0
   Repeat the following steps 10 times
     input var1
       if var1 > num then
          num = var1
       end of if
   end of repeat
   print num
      A. To find the highest among 10 numbers Answer
      B. To print out the 10 numbers
      C. To find the smallest among 10 numbers
      D. To search for a particular number among 10 numbers
     Section Ref
     Title
                              What is the purpose of this algorithm?
     section
                              1.7 Problem Solving: Algorithm Design
     Difficulty
                              Medium
                              testbank-bc-2-ch01-64
     id
77.
        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% tax on the cost of the books but not on the handling charges. Assuming that num books
   represents the number of books you are purchasing, which of the following is the correct algorithm for calculating the total cost
   of the books that you are purchasing?
      A. Total charge for the books = 4.95 * num_books
         Tax on the books = num_books * .7
         if (books <= 3) then Handling charges = 4.95
         else Handling charges = 1.50 * num_books
         Total cost of order = total charge for books + tax + handling charges
      B. Total charge for the books = 4.95 * num_books
         Tax on the books = num_books * .07
         if (books <= 3) then Handling charges = 4.95
         else Handling charges = 1.50 * num_books
         Total cost of order = total charge for books + tax + handling charges
      C. Total charge for the books = 4.95 * num_books
         Tax on the books = num_books * .07
         if (books < 3) then Handling charges = 4.95
         else Handling charges = 4.95 + 1.50 * (num_books - 3)
         Total cost of order = total charge for books + tax + handling charges
      D. Total charge for the books = 4.95 * num_books
         Tax on the books = Total charge for the books * .07
         if (books <= 3) then Handling charges = 4.95
         else Handling charges = 4.95 + 1.50 * (num_books - 3)
```

Total cost of order = total charge for books + tax + handling charges

Answer

Section Ref 1.7

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

from testbank-bc-2-ch01-65

section 1.7 Problem Solving: Algorithm Design

Difficulty Hard

id testbank-bc-3-ch01-80

- 78. Consider a situation where you are planning on purchasing 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 rate for each minute for each cell phone
 - B. The cost of each cell phone and the number of minutes provided with each cell phone
 - 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, the rate per minute for each cell phone, and the number of minutes you would use the cell phone Answer

Section Ref 1.9

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

section 1.7 Problem Solving: Algorithm Design

Difficulty Medium

id testbank-bc-2-ch01-66

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

Section Ref 1.7

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

section 1.7 Problem Solving: Algorithm Design

Difficulty Easy

id testbank-bc-2-ch01-67

- 80. Consider a situation where you are assigned to develop 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. For each item on the purchase order:

```
Order cost = order cost + item cost
```

Total purchase order cost = order cost + tax rate + 4.95

B. 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 * tax rate + shipping cost

C. If standard shipping Shipping cost = 4.95Else 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

D. 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

Section Ref

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

from testbank-bc-2-ch01-68

1.7 Problem Solving: Algorithm Design section

Difficulty

testbank-bc-3-ch01-83 id

81. Consider the given scenario for describing an algorithm using pseudocode.

UML Supermarket has different ways of awarding discounts to its customers for each purchase they make. A 10% discount is given on the total value of the purchase. In addition, a standard loyalty discount is given if customers have a permanent customer card. Your program should indicate the amount payable by the customer after the discounts. Identify the inputs that the program requires from the given set of options.

- I. The discount percentage
- II. The total value of the purchase
- III. The loyalty-discount amount
- IV. The customer card number
- V. The amount payable after discount

A. I, II, and III B. I and III

C. II, IV, and V

D. II and IV Answer

1.9 **Section Ref**

Title What are the inputs required to solve this problem?

section 1.7 Problem Solving: Algorithm Design

Difficulty Hard

id testbank-bc-2-ch01-69

82. 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 > 45 then
  extra_hours = working_hours - 45
  extra_pmt = extra_hours * rate * 2
  pmt = pmt + extra_pmt
end if
output pmt
   A.
           400
   B.
           500
   C.
           600
                Answer
   D.
           1,000
  Section Ref
                           1.7
  Title
                           Evaluate this pseudocode with these test values.
                           testbank-bc-2-ch01-70
  from
  section
                           1.7 Problem Solving: Algorithm Design
  Difficulty
                           Hard
                           testbank-bc-3-ch01-85
```

83. The following code snippet is written to calculate the kilometers per liter of two cars and print out both values.

```
#include <iostream>
using namespace std;
int main()
{
   int km1 = 600;
   int km2 = 800;
   int lit1 = 15;
   int lit2 = 20;

   cout << "Car 1: " << km1 / lit2 << endl;
   cout << "Car 2: " << km2 / lit2 << endl;
   return 0;
}</pre>
```

Based on the given code snippet, identify the correct statement:

- A. The output is correct, and there are no errors.
- B. There is a logic error, but the mileage of the first car in this case still ends up correct, while the mileage of the second car is incorrect
- C. There is a logic error, but the mileage of the second car in this case still ends up correct, while the mileage of the first car is incorrect

 Answer
- D. There is a logic error and the mileage of both cars ends up incorrect as a result

Section Ref 1.7

Title Which is true about this snippet that calculates and prints km per liter?

from testbank-bc-2-ch01-71

section 1.7 Problem Solving: Algorithm Design

Difficulty Hard

id testbank-bc-3-ch01-86

84. Is there any error in the following code snippet, which is used for calculating the average age for a group of three students?

```
#include <iostream>
   int main()
       int age1 = 15;
       int age2 = 18;
       int age3 = 24;
       int average = (age1 + age2 + age3) / 3;
       cout << "The average is " << average;</pre>
       return 0;
   }
       A.
               Yes, the code snippet has a syntax error.
       B.
               Yes, the code snippet has a logic error.
       C.
               Yes, the code snippet has a run-time error.
       D.
               No error; the code snippet is completely accurate.
     Section Ref
     Title
                                 Is there an error in snippet that calculates average age?
                                 testbank-bc-2-ch01-72
     from
                                 1.7 Problem Solving: Algorithm Design
     section
     Difficulty
                                 testbank-bc-3-ch01-87
     id
85. What is the purpose of the following algorithm?
```

```
somenum = 0
Repeat the following steps 50 times
  input variable1
    if variable1 > somenum then
      somenum = variable1
    end of if
end of repeat
print somenum
```

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

Section Ref

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

Difficulty Medium

testbank-bc-2-ch01-73 id

86. 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% tax on the cost of the videos but not on the handling charges. Assuming that num videos represents the number of videos you are purchasing, which of the following is the correct algorithm for calculating the total cost of the videos that you are purchasing?

```
A. Total charge for the videos = 21.50 * num_videos
  Tax on the videos = num_videos * .9
  if (num_videos <= 3) then Handling charges = 6.75
```

```
else Handling charges = 1.50 * num_videos
Total cost of order = total charge for videos + tax + handling charges
```

B. Total charge for the videos = 21.50 * num_videos

Tax on the videos = num_videos * .09

if (num_videos <= 3) then Handling charges = 6.75

else Handling charges = 1.50 * num_videos

Total cost of order = total charge for videos + tax + handling charges

C. Total charge for the videos = 21.50 * num_videos

Tax on the videos = num_videos * .09

if (num_videos < 3) then Handling charges = 6.75

else Handling charges = 6.75 + 1.50 * (num_videos - 3)

Total cost of order = total charge for videos + tax + handling charges

D. Total charge for the videos = 21.50 * num_videos

Tax on the videos = total charge for videos * .09

if (num_videos <= 3) then Handling charges = 6.75

else Handling charges = 6.75 + 1.50 * (num_videos - 3)

Total cost of order = total charge for videos + tax + handling charges

Answer

Section Ref 1.7

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

from testbank-bc-2-ch01-74

section 1.7 Problem Solving: Algorithm Design

Difficulty Hard

id testbank-bc-3-ch01-89

- 87. Consider a situation where you are planning on purchasing a new cable TV dish. You are considering two cable TV dishes. These cable TV dishes 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 a 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 and the number of months provided with each cable TV dish
 - C. The cost of each cable TV dish, the rate per month for using each cable TV dish, and the number of months provided with each cable TV dish
 - D. 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

Section Ref 1.7

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

section 1.7 Problem Solving: Algorithm Design

Difficulty Medium

id testbank-bc-2-ch01-75

88. Consider a situation where you are assigned 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. 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 = 23.65Total purchase order cost = order cost * tax rate + shipping cost Answer C. If standard shipping Shipping cost = 5.75Else Shipping cost = 23.65For each T shirt on the purchase order: Order cost = order cost + T shirt cost + shipping cost Total purchase order cost = order cost * tax rate D. If special delivery Shipping cost = 5.75Else Shipping cost = 23.65For each T shirt on the purchase order: Order cost = order cost + T shirt cost Total purchase order cost = order cost * tax rate + shipping cost **Section Ref** Title

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

from testbank-bc-2-ch01-76

1.7 Problem Solving: Algorithm Design section

Difficulty Medium

id testbank-bc-3-ch01-91

89. Consider the given scenario for describing an algorithm using pseudocode.

WALMART Supermarket has different ways of awarding discounts to its customer IDs for each purchase they make. An 8%discount is given on the total value of the purchase. In addition, a standard loyalty discount is given if customers have a permanent customer ID card. Your program should indicate the amount payable by the customer after the discounts. Identify the inputs that the program requires from the given set of options.

- I. The discount percentage
- II. The total value of the purchase
- III. The loyalty-discount amount
- IV. The customer ID card number

V. The amount payable after discount A. I, II, and III B. I and III C. II, IV, and V D. II and IV Answer **Section Ref** 1.7 Title What are the inputs required to solve this problem? section 1.7 Problem Solving: Algorithm Design **Difficulty** testbank-bc-2-ch01-77 id 90. Evaluate the given pseudocode to calculate the payment (pmt) with the following test values: The total number of hours worked (working hours) = 60The rate paid for hourly work (rate) = 15input working_hours input rate pmt = working_hours * rate if working_hours > 40 then extra_hours = working_hours - 40 extra_pmt = extra_hours * rate * 2 pmt = pmt + extra_pmt end of if output pmt A. 900 B. 1,200 C. 1,500 Answer D. 1,800 **Section Ref** 1.7 Title Evaluate this pseudocode with these test values. section 1.7 Problem Solving: Algorithm Design **Difficulty** Hard testbank-bc-2-ch01-78 id Which of the following is NOT a requirement for the characteristics of a good algorithm? A. It is simple. Answer В. It is unambiguous. C. It is executable. D. It terminates. **Section Ref** 1.7 Title Which of the following is NOT a requirement for the characteristics of a good algorithm? section 1.7 Problem Solving: Algorithm Design Difficulty testbank-bc-3-ch01-94 An algorithm should be written first in:

91.

92.

A.

В.

English.

pseudocode. Answer

C. C++.

D. a generic programming language.

Section Ref 1.7

Title How to write an algorithm

section 1.7 Problem Solving: Algorithm Design

Difficulty Easy

id testbank-bc-3-ch01-95

- 93. An algorithm should be written first in:
 - A. English.

B. pseudocode. Answer

C. C++.

D. a generic programming language.

Section Ref

Title Which of the following is NOT part of the software development process?

section 1.7 Problem Solving: Algorithm Design

Difficulty Easy

id testbank-bc-3-ch01-96

94. What is wrong with this algorithm for sorting a deck of playing cards according to suit?

Pick up the top card from the deck

Put it into the pile corresponding to its suit (heart, diamond, spade, club)

Repeat

- A. It is ambiguous.
- B. It is not executable.
- C. It is not terminating. Answer
- D. Nothing is wrong.

Section Ref 1.7

Title What is wrong with this algorithm for sorting a deck of playing cards according to suit?

section 1.7 Problem Solving: Algorithm Design

Difficulty Easy

id testbank-bc-3-ch01-97

- 95. What is the correct order for the following steps in creating an algorithm?
 - D. Describe each task with pseudocode
 - T. Test the pseudocode on a sample set of inputs
 - B. Break down the problem into small tasks
 - L. List the inputs and outputs
 - A. The order does not matter.
 - B. D, T, L, B
 - C. B, D, L, T
 - D. L, B, D, T Answer

Section Ref 1.7

Title What is the correct order for the following steps in creating an algorithm?

section 1.7 Problem Solving: Algorithm Design

Difficulty Easy

id testbank-bc-3-ch01-98

- 96. Say you are writing an algorithm to arrange tiles to fill a rectangular floor with alternating black and white tiles. What would be the required inputs to the algorithm?
 - A. The total floor area and each tile's area
 - B. The number of tiles available and the floor area
 - C. The length and width of the floor and of the tiles Answer
 - D. A and C both are required inputs

Section Ref 1.7

Determining Inputs to an Algorithm Title 1.7 Problem Solving: Algorithm Design section

Difficulty

testbank-bc-3-ch01-99 id

97. What is the problem with the following algorithm?

Repeat a number of times

Add sales amount to total sales.

- A. The algorithm has a Repeat instruction, but statements in a program cannot be repeated.
- В. The Add statement in the algorithm is not executable.
- C. The Add statement in the algorithm does not clearly specify what is to be added.
- D. The algorithm is ambiguous because it does not specify how many times to repeat the Add statement. Answer

Section Ref

Title What is the problem with the following algorithm?

1.7 Problem Solving: Algorithm Design section

Difficulty

testbank-bc-3-ch01-100 id