Test Bank for Microsoft Visual Basic 2017 for Windows Applications Introductory 1st Hoisington

Access Complete Test Bank for Microsoft Visual Basic 2017 for Windows Applications Introductory 1st Hoisington

Name:_____ Class:_____ Date:_____

Chapter 01: Introduction to Visual Basic 2017 Programming

1. A ____ is an input device.
    a. scanner
    b. keyboard
    c. digital camera
    d. printer

ANSWER: a, b, c
REFERENCES: Introduction

2. An application might allow data to be entered with a ____.
    a. scanner
    b. mouse
    c. digital camera
    d. video camera

ANSWER: a, b, c, d
REFERENCES: Basic Program Operations

3. A ____ is an output device.
    a. mouse
    b. smartphone screen
    c. keyboard
    d. printer

ANSWER: b, d
REFERENCES: Basic Program Operations

4. A database is a collection of data organized in a manner that allows ____ of that data.
    a. scanning
    b. retrieval
    c. access
    d. use

ANSWER: b, c, d
REFERENCES: Basic Program Operations

5. Buttons for frequently used commands such as ____ are found on the Standard toolbar.
    a. Open Project
    b. Cut
    c. Save
    d. Paste

ANSWER: a, b, c, d
REFERENCES: Visual Basic 2017 and Visual Studio 2017

6. ____ the physical equipment associated with a computer.
    a. Computer hardware is

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b. Computer software is
c. Computer programs are
d. Computer cables are

ANSWER: a
REFERENCES: Introduction

7. Both the program and the data must be placed in the ____ of computers in order for the computer to perform activities as directed by the program.
a. read only memory (ROM)
b. central processing unit (CPU)
c. CD-ROM
d. random access memory (RAM)

ANSWER: d
REFERENCES: Introduction

8. Which item is a storage device?
a. RAM
b. Printer
c. System unit
d. Digital camera

ANSWER: a
REFERENCES: Introduction

9. Which item is an input device?
a. Printer
b. Smartphone screen
c. Digital camera
d. CPU

ANSWER: c
REFERENCES: Introduction

10. Which item is a processing device?
a. RAM
b. Hard drive
c. Scanner
d. System unit

ANSWER: d
REFERENCES: Introduction

11. In which order do most programs follow these general steps?
a. process data, accept input data, create output data
b. create output data, accept input data, process data

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c. accept input data, process data, create output data
d. accept input data, create output data, process data

ANSWER: c
REFERENCES: Introduction

12. Data is said to be ____ if it remains available after the computer power is turned off.
a. persistent
b. volatile
c. fragmented
d. temporary

ANSWER: a
REFERENCES: Introduction

13. Most Visual Basic 2017 programs are ____ programs that communicate with the user through a graphical user interface (GUI).
a. GUI-based
b. indexed
c. event-driven
d. persistent

ANSWER: c
REFERENCES: Introduction

14. A _____ consists of a window containing a variety of objects that can be displayed on various devices.
a. ROM
b. GUI
c. CPU
d. ERD

ANSWER: b
REFERENCES: Introduction

15. Tapping or clicking a button when a Visual Basic program is running triggers a(n) ____.
a. index
b. radical
c. baseline
d. event

ANSWER: d
REFERENCES: Introduction

16. Users employ GUI objects to ____.
a. select options
b. enter data
c. cause events to occur

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d. all of the above

ANSWER: d

REFERENCES: Introduction

17. Addition and subtraction are considered to be ____ operations performed by a computer.
    a. input
    b. comparing
    c. arithmetic
    d. output

ANSWER: c

REFERENCES: Basic Program Operations

18. It is the ability of a computer to perform ____ operations that separates it from other types of calculating devices.
    a. arithmetic
    b. input
    c. logical
    d. output

ANSWER: c

REFERENCES: Basic Program Operations

19. A computer uses ____ operations to compare two values to see if they are equal to each other.
    a. arithmetic
    b. logical
    c. grouping
    d. sorting

ANSWER: b

REFERENCES: Basic Program Operations

20. A program can direct a computer to take alternative actions based on the results of ____ comparisons.
    a. arithmetic
    b. grouping
    c. logical
    d. sorting

ANSWER: c

REFERENCES: Basic Program Operations

21. A ____ is a collection of data organized in a manner that allows access, retrieval, and use of that data.
    a. file
    b. folder
    c. program
    d. database

ANSWER: d

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*REFERENCES:*Basic Program Operations

22. The ____ of a programming language is the set of usage rules for that language.
    a. logic
    b. semantics
    c. syntax
    d. GUI

ANSWER: c
*REFERENCES:*Visual Basic 2017 and Visual Studio 2017

23. A(n) ____ is a set of services and tools that enable a developer to code, test, and implement a single program or series of programs that comprise an application.
    a. integrated development environment (IDE)
    b. graphical user interface (GUI)
    c. development studio
    d. Microsoft Intermediate Language (MSIL)

ANSWER: a
*REFERENCES:*Visual Basic 2017 and Visual Studio 2017

24. In the Visual Studio IDE, the ____ identifies the window and the application open in the window.
    a. title bar
    b. menu bar
    c. index bar
    d. property

ANSWER: a
*REFERENCES:*Visual Basic 2017 and Visual Studio 2017

25. The ____ contains a list of commands that allow you to create, edit, save, print, test, and run a Visual Basic program.
    a. menu bar
    b. toolbar
    c. Toolbox
    d. Properties window

ANSWER: a
*REFERENCES:*Visual Basic 2017 and Visual Studio 2017

26. The ____ of Visual Studio 2017 contains buttons for commands that are frequently used, such as Open Project, Save, Cut, Copy, Paste, and Undo.
    a. menu bar
    b. Standard toolbar
    c. Toolbox
    d. Properties window

ANSWER: b

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REFERENCES: Visual Basic 2017 and Visual Studio 2017

27. The ____ contains the .NET components that you can use to develop the GUI for a program.
    a. menu bar
    b. toolbar
    c. Toolbox
    d. Properties window

ANSWER: c
REFERENCES: Visual Basic 2017 and Visual Studio 2017

28. Each control has ____.
    a. indices
    b. properties
    c. IDEs
    d. tools

ANSWER: b
REFERENCES: Visual Basic 2017 and Visual Studio 2017

29. A button or a text box are examples of objects, also called ____, that are a visible part of the GUI.
    a. indices
    b. classes
    c. libraries
    d. controls

ANSWER: d
REFERENCES: Visual Basic 2017 and Visual Studio 2017

30. A ____ is an item that is a visible part of a GUI.
    a. property
    b. control
    c. class
    d. library

ANSWER: b
REFERENCES: Visual Basic 2017 and Visual Studio 2017

31. ____ are the characteristics of objects in Visual Basic.
    a. Methods
    b. Functions
    c. Identifiers
    d. Properties

ANSWER: d
REFERENCES: Visual Basic 2017 and Visual Studio 2017

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32. The characteristics of GUI controls such as buttons and text boxes can be set using the ____ window in the Visual Studio IDE.

a. Characteristics
b. Attributes
c. Properties
d. Values

ANSWER: c
REFERENCES: Visual Basic 2017 and Visual Studio 2017

33. Visual Studio Code is an IDE that supports ____.

a. C++
b. C#
c. Python
d. All of the above

ANSWER: d
REFERENCES: Visual Basic 2017 and Visual Studio 2017

34. ____ is a language that can be used in Visual Studio.

a. Fortran
b. Visual F#
c. Lisp
d. COBOL

ANSWER: b
REFERENCES: Programming Languages

35. One of the most widely used programming languages in the world is ____.

a. Pascal
b. BASIC
c. Fortran
d. Visual Basic

ANSWER: d
REFERENCES: Programming Languages

36. The ____ provides tools and processes developers can use to produce and run programs.

a. SQL Server Set
b. .NET Framework
c. Java Toolkit
d. both A and B

ANSWER: b
REFERENCES: .NET Framework 4.6.2

37. All of the following are major features of the .NET Framework 4.6 EXCEPT ____.

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a. RAM
b. ADO.NET
c. the Common Language Runtime
d. ASP.NET

ANSWER: a
REFERENCES:.NET Framework 4.6.2

38. A class ____ is a collection of classes that can be made available for developers to use.
a. glossary
b. library
c. index
d. roster

ANSWER: b
REFERENCES:.NET Framework 4.6.2

39. The process of ____ is used to create an object from a class.
a. initialization
b. instantiation
c. objectification
d. classification

ANSWER: b
REFERENCES:.NET Framework 4.6.2

40. ____ is an example of a set of prewritten classes that allows you to access data stored in a database.
a. ADO.NET
b. ASP.NET
c. RAD
d. CLR

ANSWER: a
REFERENCES:.NET Framework 4.6.2

41. The process of using prebuilt classes to make application development faster, easier, and more reliable is called ____.
a. RAD
b. CAD
c. ARD
d. CLR

ANSWER: a
REFERENCES:.NET Framework 4.6.2

42. ____ computing is the connection of remote servers hosted on the Internet to store and process data, instead of storing the information locally on a personal computer or device.
a. Distance

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b. Intangible
c. Indexed
d. Cloud

ANSWER: d
REFERENCES:.NET Framework 4.6.2

43. Translating programming statements into instructions that can be understood by the electronics of the computer is accomplished by a process called program ____.
a. instantiation
b. compilation
c. factoring
d. indexing

ANSWER: b
REFERENCES:.NET Framework 4.6.2

44. The ____ reads the MSIL code and causes the instructions within the program to be executed.
a. CAD
b. RAD
c. CLR
d. ARD

ANSWER: c
REFERENCES:.NET Framework 4.6.2

45. A Web application runs on a web server and produces ____ code that is downloaded to a client computer.
a. XML
b. SQL
c. HTML5
d. HTTP

ANSWER: c
*REFERENCES:*Types of Visual Basic 2017 Applications

46. A computer program on a mobile device or Windows 8 or Windows 10 computer is also called an app.
a. True
b. False

ANSWER: True
*REFERENCES:*Introduction

47. Computer hardware will perform its tasks automatically, regardless of whether a software program is running or not.
a. True
b. False

ANSWER: False
*REFERENCES:*Introduction

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48. Many computer programs perform the following general steps: first accept input, then write output, and finally process the data, in that order.
    a. True
    b. False

ANSWER: False

REFERENCES: Introduction

49. Saving, or storing, data refers to placing the data or software electronically on a storage medium.
    a. True
    b. False

ANSWER: True

REFERENCES: Introduction

50. In order for the computer to execute a program, both the program and the data must be placed in the computer's random access memory (RAM).
    a. True
    b. False

ANSWER: True

REFERENCES: Introduction

51. Computer programs can be written in standard English.
    a. True
    b. False

ANSWER: False

REFERENCES: Introduction

52. A programming language is a set of words and symbols that can be interpreted by special computer software to create instructions that can be executed by a computer.
    a. True
    b. False

ANSWER: True

REFERENCES: Introduction

53. A graphical user interface (GUI) is a special device for communicating with a user.
    a. True
    b. False

ANSWER: False

REFERENCES: Introduction

54. Tapping or clicking a button on a program screen causes an event to occur.
    a. True
    b. False

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ANSWER: True
REFERENCES: Introduction

55. A computer program can perform addition, subtraction, multiplication, and division operations on numeric data.
    a. True
    b. False
ANSWER: True
REFERENCES: Basic Program Operations

56. Computers can compare numbers, letters of the alphabet, and special characters.
    a. True
    b. False
ANSWER: True
REFERENCES: Basic Program Operations

57. A logical operation can be used to determine if two values are equal, if one value is greater than the other, or if one value is less than the other.
    a. True
    b. False
ANSWER: True
REFERENCES: Basic Program Operations

58. If you write a computer program, and want to execute the same program many times without rewriting it each time, you must save the program on disk.
    a. True
    b. False
ANSWER: True
REFERENCES: Basic Program Operations

59. A program can write data, but it cannot save data on disk.
    a. True
    b. False
ANSWER: False
REFERENCES: Basic Program Operations

60. Visual Basic 2017 is a programming language.
    a. True
    b. False
ANSWER: True
REFERENCES: Programming Languages

61. Buttons for the .NET components used to develop the GUI are found on the Standard toolbar.
    a. True

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b. False

ANSWER: False

REFERENCES: Visual Basic 2017 and Visual Studio 2017

62. The Solution Explorer contains the item you are currently developing.

a. True

b. False

ANSWER: False

REFERENCES: Visual Basic 2017 and Visual Studio 2017

63. An object acts as a general template and a class is a specific item generated based on the object template.

a. True

b. False

ANSWER: False

REFERENCES: Visual Basic 2017 and Visual Studio 2017

64. The .NET Framework 4.6.2 contains thousands of classes and many class libraries that can be used by Visual Basic developers.

a. True

b. False

ANSWER: True

REFERENCES: .NET Framework 4.6.2

65. ADO.NET allows a program to examine data from a database but does not permit the program to update data in a database.

a. True

b. False

ANSWER: False

REFERENCES: .NET Framework 4.6.2

66. ADO.NET is not part of the .NET Framework 4.6.

a. True

b. False

ANSWER: False

REFERENCES: .NET Framework 4.6.2

67. Almost all of the objects available in the .NET framework, such as buttons, text boxes, and picture boxes, are available in ASP.NET.

a. True

b. False

ANSWER: True

REFERENCES: .NET Framework 4.6.2

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68. The use of MSIL and CLR offers multiple benefits that provide speed and flexibility for both the development and execution environments of a program.

a. True

b. False

ANSWER: True

REFERENCES:.NET Framework 4.6.2

69. After the compiling process is complete and a program is ready for execution, the MSIL reads the CLR in RAM in a form that allows the computer's CPU to execute the instructions in the program.

a. True

b. False

ANSWER: False

REFERENCES:.NET Framework 4.6.2

70. Utmost among the benefits offered by MSIL and CLR is that a program written using Visual Studio 2017and compiled into MSIL can be executed on any computer using any operating system, as long as .NET Framework is available on the computer.

a. True

b. False

ANSWER: True

REFERENCES:.NET Framework 4.6.2

71. The set of instructions that directs a computer to perform tasks is called computer hardware.

_____

ANSWER: False - software

*REFERENCES:*Introduction

72. It is the ability of a computer to perform arithmetic operations that separates it from other types of calculating devices.

_____

ANSWER: False - logical

*REFERENCES:*Basic Program Operations

73. The programming rules of a language are called its semantics. _____

ANSWER: False - syntax

*REFERENCES:*Visual Basic 2017 and Visual Studio 2017

74. C++ is a language that is derived from the programming language C. _____

ANSWER: True

*REFERENCES:*Programming Languages

75. The process of creating an object from a class template is called generation. _____

ANSWER: False - instantiation

REFERENCES:.NET Framework 4.6.2

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Chapter 01: Introduction to Visual Basic 2017 Programming

76. _____ are people skilled in designing computer programs and creating them using programming languages.
ANSWER: Developers
REFERENCES: Introduction

77. Developers speak of developing a(n) _____, which can mean several computer programs working together to solve a problem.
ANSWER: application
REFERENCES: Introduction

78. Operations, such as addition and subtraction, are called _____ operations.
ANSWER: arithmetic
REFERENCES: Basic Program Operations

79. Operations that allow two values to be compared are called _____ operations.
ANSWER: logical
REFERENCES: Basic Program Operations

80. The usage rules of a programming language are called the _____ of the language.
ANSWER: syntax
REFERENCES: Visual Basic 2017 and Visual Studio 2017

81. Visual Studio 2017 is an example of a set of services and tools called a(n) _____, which allows a developer to code, test, and implement programs.
ANSWER: integrated development environment
integrated development environment (IDE)
IDE

REFERENCES: Visual Basic and Visual Studio 2017

82. The _____ in Visual Studio 2017 contains the .NET components that can be used in developing the GUI of a program.
ANSWER: Toolbox
REFERENCES: Visual Basic and Visual Studio 2017

83. The _____ programming language is a synthesis of Visual Basic and C++.
ANSWER: Visual C#
REFERENCES: Programming Languages

84. When an object has been created from a class, we say that a(n) _____ of the class has been created.
ANSWER: instance
REFERENCES: .NET Framework 4.6.2

85. A(n) _____ is a named group of program code.
ANSWER: class

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REFERENCES:.NET Framework 4.6.2

86. An object is instantiated from a(n) _____.
ANSWER: class
REFERENCES:.NET Framework 4.6.2

87. A class acts as a general template from which a(n) _____ can be created.
ANSWER: object
REFERENCES:.NET Framework 4.6.2

88. The .NET Framework _____ contains thousands of classes.
ANSWER: class library
REFERENCES:.NET Framework 4.6.2

89. _____ is the set of prewritten classes in the .NET Framework 4.6.2 used in Visual Studio to work with databases.
ANSWER: ADO.NET
REFERENCES:.NET Framework 4.6.2

90. ASP.NET is designed for _____ technologies and server-side applications.
ANSWER: cloud
REFERENCES:.NET Framework 4.6.2

91. When a program written in a Visual Studio 2017 programming language is compiled, the code is expressed in an intermediate language called the _____.
ANSWER: Microsoft Intermediate Language
Microsoft Intermediate Language (MSIL)
MSIL
MSIL (Microsoft Intermediate Language)
REFERENCES:.NET Framework 4.6.2

92. The _____ reads the MSIL code and causes the program instructions to be executed.
ANSWER:
Common Language Runtime (CLR)
Common Language Runtime
CLR (Common Language Runtime)
CLR
REFERENCES:.NET Framework 4.6.2

93. A(n) _____ application means the program will run on a computer or other device that supports the Windows GUI.
ANSWER: Windows Classic Desktop
*REFERENCES:*Types of Visual Basic 2017 Applications

94. You can create _____ apps that are designed to run on Windows 8 or Windows 10 computers and mobile devices such as smartphones and tablets.

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ANSWER: Windows Universal
REFERENCES: Types of Visual Basic 2017 Applications

95. Visual Studio 2017 provides the tools required to develop three-dimensional augmented reality applications called _____ apps.
ANSWER: HoloLens
REFERENCES: Types of Visual Basic 2017 Applications

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Identify the letter of the choice that best matches the phrase or definition.

a. hardware
b. event-driven
c. class library
d. logical
e. RAM
f. ADO.NET
g. syntax
h. persistent
i. .NET Framework 4.6.2
j. Visual F#

REFERENCES: 4
2
4
5
9-10
11
15
16
16
17

REFERENCES: Introduction
Introduction
Introduction
Introduction
Basic Program Operations
Visual Basic 2017 and Visual Studio 2017
Visual Basic 2017 and Visual Studio 2017
.NET Framework 4.6.2
.NET Framework 4.6.2
.NET Framework 4.6.2

QUESTION TYPE: Matching

96. Where data must be placed in order to be processed
ANSWER: e
POINTS: 1

97. The physical equipment associated with a computer
ANSWER: a
POINTS: 1

98. Kind of data that remains available even after the computer is powered off
ANSWER: h
POINTS: 1

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99. The kind of computer program that communicates interactively with the user through a graphical user interface
ANSWER: b
POINTS: 1

100. The kind of operations used to compare two values
ANSWER: d
POINTS: 1

101. The usage rules of a programming language
ANSWER: g
POINTS: 1

102. A multipurpose language similar to Visual Basic and C#
ANSWER: j
POINTS: 1

103. Available for all developers who need to use it
ANSWER: c
POINTS: 1

104. Provides tools and processes developers can use to process and run programs
ANSWER: i
POINTS: 1

105. Provides the tools for a program to examine data that was retrieved from a database
ANSWER: f
POINTS: 1

106. Define data, explain its three forms, and the general steps a computer performs related to data.
ANSWER: Data includes words, numbers, videos, graphics, and sound that programs manipulate, display, and otherwise process. The basic function of many programs is to accept some form of data (sometimes called input data), manipulate the data in some manner (sometimes called processing), and create some form of data that is usable by people or other computers (sometimes called output data or information). In short, many computer programs perform the following general steps: accept input data, process the data, and create output data. The data that acts as input to a program, the processing that occurs, and the output that is created vary with the requirements of the program.
POINTS: 1
REFERENCES: 3
REFERENCES: Introduction
QUESTION TYPE: Essay
TOPICS: Critical Thinking

107. Define syntax and explain its significance.
ANSWER: Each program statement causes the computer to perform one or more operations. When written, these

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instructions must conform to the rules of the Visual Basic 2017 language. Coding a program is a precise skill. The developer must follow the syntax, or programming rules, of the programming language precisely. Even a single coding error can cause a program to execute improperly. Therefore, the developer must pay strict attention to coding an error-free program.

POINTS: 1
REFERENCES: 12
REFERENCES: Visual Basic 2017 and Visual Studio 2017
QUESTION TYPE: Essay
TOPICS: Critical Thinking

108. Discuss at least four of the elements found in the Visual Studio 2017 window.

ANSWER: The title bar identifies the window and the application open in the window.

The menu bar displays the Visual Studio 2017 menu names. The menus contain lists of commands that allow you to create, edit, save, print, test, and run a Visual Basic program, and to perform other functions that are critical to the development of Visual Basic programs.

The Standard toolbar contains buttons that execute frequently used commands such as Open Project, New Project, Save, Cut, Copy, Paste, and Undo.

The Toolbox contains .NET components that you can use to develop the GUI for the program.

The main work area contains the item you are currently developing.

The Solution Explorer window displays the elements of the Visual Basic solution, which is the name for the Visual Basic program and other items generated by Visual Studio to help the program execute properly.

An item that is a visible part of a GUI is called an object, or control. Each object in a Visual Basic program has a set of characteristics called the properties of the object. These properties can be set in the Properties window within Visual Studio.

POINTS: 1
REFERENCES: 13-14
REFERENCES: Visual Basic 2017 and Visual Studio 2017
QUESTION TYPE: Essay
TOPICS: Critical Thinking

Case 1-1

As you prepare to bring one of the interns in your software development company to speed up the project on which you are working, you decide to create some illustrations of your programming to make certain key concepts clear to the intern.

109. Which of the following do you show your intern as an example of an event that a user might perform in the application you are creating?

a. powering on the computer
b. saving data to RAM
c. clicking a button
d. all of the above

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ANSWER: c
POINTS: 1
REFERENCES: 5
REFERENCES: Introduction
QUESTION TYPE: Multiple Choice
TOPICS: Critical Thinking

110. All of the following are examples, you could show your intern, of actions within event-driven programs EXCEPT ____.

a. an account balance is shown when a button is clicked
b. a message appears on the screen in response to text entered by the user
c. the computer reboots spontaneously as the result of a head crash
d. a text box is reset when a Reset button is clicked

ANSWER: c
POINTS: 1
REFERENCES: 6-7
REFERENCES: Introduction
QUESTION TYPE: Multiple Choice
TOPICS: Critical Thinking

Case 1-2
Visual Studio is new to you and you are trying to determine which of its languages is the best match for a couple of the projects on which you and your team are about to embark.

111. You are looking for a program that will be the most user-friendly for two of the junior members of your team, both of whom are new to programming. Which of the following is the best match?

a. Visual Basic
b. C++
c. Visual C#
d. All of the above

ANSWER: a
POINTS: 1
REFERENCES: 14
REFERENCES: Programming Languages
QUESTION TYPE: Multiple Choice
TOPICS: Critical Thinking

112. Steve and Shana on your team are looking for a language that will allow them to create an application that requires a high degree of control; they are not intimidated by complexity, as they have been programming for several years. Which of the following is the best match for them?

a. Visual Basic

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Chapter 01: Introduction to Visual Basic 2017 Programming

b. Visual C#
c. C++
d. Visual F#

ANSWER: c
POINTS: 1
REFERENCES: 15
REFERENCES: Programming Languages
QUESTION TYPE: Multiple Choice
TOPICS: Critical Thinking

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