Starting out with Visual C 4th Edition Gaddis Test Bank

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Starting Out with Visual C#, 4th Edition Chapter 2: Introduction to Visual C#

Multiple Choice

- 1. Which one of the following Button control names is not a legal C# identifier?
 - a. _calculateTotalButton
 - b. printSalesReportButton
 - c. clear_customer_names_button
 - d. 1stPlayerStartButton

ANS: D

- 2. Which one of the following Button control names is a legal C# identifier?
 - a. _DisplayOption5Button
 - b. Exit!Button
 - c. *Clear*Button*
 - d. delete Record Button

ANS: A

- 3. The ______ naming convention gets its name because the uppercase characters that appear in a name are sometimes reminiscent of a camel's humps.
 - a. camelCase
 - b. Pascal
 - c. Hungarian notation
 - d. CaMeL style

ANS: A

- When learning computer programming, it is traditional to start by learning to write a program.
 - a. Simple
 - b. Hello World
 - c. Pseudocode
 - d. K&R Style

ANS: B

- 5. The PictureBox control's _____ property determines whether the image stored in the control will cause the control to be shrunk or expanded.
 - a. DisplayMode
 - b. Visible
 - c. SizeMode
 - d. Render

ANS: C

6. Programmers commonly use ______ in their code to create a sense of visual organization.

- a. different font colors
- b. documentation comments
- c. blank lines and indentation
- d. bold images, such as photos

ANS: C

7. To close an application's form in code, you use the statement ______.

- a. me.Quit();
- b. this.Close();
- c. form.Exit();
- d. app.Stop();

ANS: B

- 8. When you enter a statement into the code editor, Visual Studio analyzes it, and if a syntax error is found, it is ______.
 - a. automatically corrected
 - b. underlined with a jagged line
 - c. crossed out
 - d. highlighted

ANS: B

- 9. The ______ shows a description of the error, the name of the source code file containing the error, the error's line number and column number, and the name of the project.
 - a. Debug dialog box
 - b. Crash pop up
 - c. Error List window
 - d. Just In Time debugger

ANS: C

- 10. The ______ file contains an application's start-up code, which executes when the application runs.
 - a. Main.cs
 - b. Code.cs
 - c. Program.cs
 - d. Source.cs

ANS: C

11. The file named ______ contains code associated with a form named Form1.

- a. Form1.cs
- b. MainForm.cs
- c. Control.cs
- d. Window.cs

ANS: A

12. A ______ is a declared block in a program between braces {...} that holds classes.

- a. method
- b. program
- c. namespace
- d. list

ANS: C

- 13. A(n) ______ is a logical container in a program that holds methods (as well as other program elements).
 - a. event
 - b. namespace
 - c. queue
 - d. class

ANS: D

- 14. A(n) ______ is a sequence of one or more programming statements (code) that performs some operation.
 - a. algorithm
 - b. method
 - c. class
 - d. namespace

ANS: B

- 15. The ______ directives appearing at the top of a C# source code file indicate which namespaces the program will use. Usually, these namespaces belong to the .NET Framework.
 - a. include
 - b. namespace
 - c. public
 - d. using

ANS: D

- 16. Code containers, such as namespaces, classes, and methods, use ______ to enclose code.
 - a. braces ({ })
 - b. asterisks (**)
 - c. parentheses (())
 - d. brackets ([])

ANS: A

17. An easy way to switch between the *Designer* and the code editor is to click the ______ for the desired window. This only works if both the code file and

designer file have already been opened.

a. icon

- b. tab
- c. button
- d. bounding box

ANS: B

- 18. A(n) ______ is a method that executes when a specific event (such as clicking the mouse) takes place while an application is running.
 - a. action sequencer
 - b. feature coordinator
 - c. event handler
 - d. incident manager

ANS: C

19. A(n) ______ event occurs on a control when the user clicks the mouse on a control while the program is running.

- a. Action
- b. Click
- c. Live
- d. Mouse

ANS: B

20. A ______ is a small pop-up window, also known as a *dialog box*, that displays a message.

- a. standard window
- b. pop up
- c. banner
- d. message box

ANS: D

21. If you want your code to execute a method, write a statement known as a(n)

- a. event handler
- b. executor statement
- c. initialization routine
- d. method call

ANS: D

22. Which one of the following statements correctly display the text "*Hello*" in a message box?

- a. Messagebox("Hello")
- b. MessageBox.Show("Hello");
- c. msgbox(Hello);
- d. msgbox.show(Hello)

ANS: B

- 23. When a(n) ______ appears around an object in the Visual Studio *Designer*, it indicates that the object is selected and is ready for editing.
 - a. sizing handle
 - b. editing icon
 - c. bounding box
 - d. frame

ANS: C

24. _____ allow you to resize a selected object in the Visual Studio *Designer* by

clicking and dragging the mouse when the mouse cursor becomes a two-headed arrow.

- a. Bounding boxes
- b. Sizing handles
- c. ToolTips
- d. Properties

ANS: B

- 25. When you select an object in the Visual Studio *Designer*, the object's size, color, text, and other characteristics are displayed in the ______ window.
 - a. Designer
 - b. *Editing*
 - c. Object
 - d. Properties

ANS: D

26. The ______ property of a form determines the text that is displayed in a form's title bar.

- a. Title
- b. Caption
- c. Name
- d. Text

ANS: D

- 27. The ______ property can be used to change a form's width and height, measured in pixels.
 - a. Area
 - b. Resolution
 - c. Size
 - d. Rectangle

ANS: C

- 28. When selected in the Properties window toolbar, the ______ button causes the items in the *Properties* window to be displayed in alphabetical order.
 - a. Arrange
 - b. Ascending

- c. Descending
- d. Alphabetical

ANS: D

- 29. Selecting the ______ button in the *Properties* window causes the items in the window to be displayed in logical groups.
 - a. Grouped
 - b. Categorized
 - c. Ordered
 - d. Type

ANS: B

- 30. The Visual Studio ______ window shows a scrollable list of controls that you can add to a form.
 - a. Collection
 - b. Bank
 - c. Toolbox
 - d. Shelf

ANS: C

- 31. In the design window, you can click and drag a control to a new location when the mouse cursor is positioned inside the control and the mouse cursor becomes a
 - a. two-headed arrow
 - b. four-headed arrow
 - c. hand icon
 - d. scissor icon

ANS: B

- 32. To delete a control, you can select it on a form and then press the ______ key on the keyboard.
 - a. Delete
 - b. Z
 - c. Tab
 - d. X

ANS: A

33. A Button control has a ______ property that holds a string to be displayed on the face of the button.

- a. Text
- b. Name
- c. Description
- d. Face

ANS: A

- 34. A control's ______ property identifies the control in the application's code and in the Visual Studio environment.
 - a. Text
 - b. Source
 - c. Tag
 - d. Name

ANS: D

35. Control names are also known as _____, the same term used for variables in programs.

- a. tags
- b. identifiers
- c. values
- d. labels

ANS: B

36. To run an application in Visual Studio, press the ______ button on the keyboard or click the *Start Debugging* button on the toolbar.

- a. Enter
- b. F5
- c. Tab
- d. Shift

ANS: B

- 37. A file that contains program code is called a ______.
 - a. source code file
 - b. program file
 - c. C# file
 - d. cs file

ANS: A

38. In programming we use the term ______ to mean a sequence of characters that could be enclosed in quotation marks "...".

- a. statement
- b. thread
- c. word
- d. string

ANS: D

39. In C# code, ______ are required to indicate the beginning and the end of a string.

- a. single quotation marks, such as (')
- b. double quotation marks, such as (")
- c. parentheses
- d. semicolons

ANS: B

- 40. Just as a period marks the end of a sentence, a _____ marks the end of a programming statement in C#.
 - a. space
 - b. underscore
 - c. semicolon
 - d. period

ANS: C

41. When a piece of data such as 23 or "Hello" is written into a program's code, it is called a

- a. constant
- b. sentinel
- c. value
- d. literal

ANS: D

42. When a string is written into a program's code, it is called a(n) ______.

- a. string literal
- b. typed string
- c. encoded string
- d. string constant

ANS: A

- 43. When you have a project open in Visual Studio, the time during which you build the GUI and write the application's code is referred to as _____.
 - a. prototyping
 - b. design time
 - c. visual planning
 - d. application progression

ANS: B

44. The time during which an application is executing is referred to as ______.

- a. up time
- b. execution
- c. run time
- d. instancing

ANS: C

45. When you want to display text on a form but not allow the user to change the text, you

use a ___

- a. String control
- b. Label control

- c. Text control
- d. Font control

ANS: B

- 46. The Label control can be found in the _____ group of the *Toolbox*.
 - a. Common Controls
 - b. Containers
 - c. Data
 - d. Components

ANS: A

47. The ______ property allows you to set the font, font style, and size of a control's text.

- a. Appearance
- b. Text
- c. Font
- d. Graphics

ANS: C

- 48. The ______ can be accessed from the *Properties* window by clicking the ellipses (...) appearing next to the Font property's value.
 - a. Text designer
 - b. Font dialog box
 - c. Text editor
 - d. Font selector

ANS: B

- 49. Each Label control has a ______ property that allows you to display a rectangle around the control's text.
 - a. Border
 - b. FrameStyle
 - c. Frame
 - d. BorderStyle

ANS: D

50. Which one of the following is not a valid setting for a Label control's BorderStyle

property?

- a. FixedSingle
- b. None
- c. Fixed3D
- d. FixedDouble

ANS: D

- 51. Label controls have a(n) _____ property that affects the way they can be resized.
 - a. Resize
 - b. AutoSize
 - c. SizeMode
 - d. Redraw

ANS: B

52. A ______ property can be set to one of two possible values: *True* or *False*.

- a. Boolean
- b. Binary
- c. Singular
- d. Toggle

ANS: A

- 53. A Label control's _____ property can be used to change the alignment of text within the Label.
 - a. TextPosition
 - b. DisplayFont
 - c. TextAlign
 - d. HorizontalAlign

ANS: C

54. In code, you use a(n) ______ to store a value in a control's property.

- a. string literal
- b. assignment statement
- c. dialog box
- d. constant

ANS: B

55. In C#, the equal sign (=) is known as the _____.

- a. equality operator
- b. parity operator
- c. assignment operator
- d. transfer operator

ANS: C

56. The standard notation for referring to a control's property in code is:

- a. ControlName.PropertyName
- b. ControlName->PropertyName
- c. ControlName::PropertyName
- d. ControlName<PropertyName/>

ANS: A

- 57. Which of the following statements would display the number 25 in a Label control named ouputLabel?
 - a. outputLabel.Text = 25;
 - b. outputLabel.Text = "25";
 - c. outputLabel(25);
 - d. outputLabel = "25";

ANS: B

58. Which of the following statements would clear the text displayed in a Label control named cityLabel?

```
a. cityLabel.Text = "empty";
b. cityLabel.Text = "none";
c. cityLabel.Text = "clear";
d. cityLabel.Text = "";
```

ANS: D

- 59. ______ is a feature of Visual Studio that provides automatic code completion as you write programming statements.
 - a. IntelliSense
 - b. AutoComplete
 - c. Snippet
 - d. CodeHelper

ANS: A

- 60. You can use a(n) _____ control to display a graphic image on a form.
 - a. Image
 - b. Graphics
 - c. Texture2D
 - d. PictureBox

ANS: D

- 61. Once you have created a PictureBox control, you use its _____ property to specify the image it will display.
 - a. Picture
 - b. Image
 - c. Source
 - d. Display

ANS: B

62. ______ is the default value of the PictureBox control's SizeMode property.

- a. AutoSize
- b. Normal
- c. Zoom
- d. StretchImage

ANS: B

63. ______ is a term that refers to an image's width to height ratio.

- a. Area
- b. Bounding box
- c. Aspect ratio
- d. UV map

ANS: C

- 64. When a PictureBox control's SizeMode property is set to ______, the image is uniformly resized to fit the PictureBox without losing its original aspect ratio.
 - a. Normal
 - b. Zoom
 - c. CenterImage
 - d. StretchImage

ANS: B

- 65. Most controls have a(n) _____ property that determines whether the control can be seen by the user at run time.
 - a. Enabled
 - b. Invisible
 - c. Show
 - d. Visible

ANS: D

- 66. Assuming an application has a PictureBox control named profilePictureBox, which one of the following assignment statements will hide the PictureBox from the user at run time?
 - a. profilePictureBox.Visible = False;
 - b. profilePictureBox.Visible = false;
 - c. profilePictureBox.Invisible = True;
 - d. profilePictureBox.Invisible = true;

ANS: B

- 67. ______ are short notes placed in a program's source code, explaining how the program works.
 - a. Sketches
 - b. Tags
 - c. Comments
 - d. Labels

ANS: C

- 68. A(n) ______ appears on one line in a program and begins with two forward slashes (//).
 - a. line comment

- b. short comment
- c. block comment
- d. documentation comment

ANS: A

- 69. A(n) ______ can occupy multiple consecutive lines in a program. It starts with /* (a forward slash followed by an asterisk), and ends with */ (an asterisk followed by a forward slash).
 - a. line comment
 - b. block comment
 - c. short comment
 - d. documentation comment

ANS: B

- 70. ______ are used by professional programmers to embed extensive documentation in a program' source code.
 - a. Line comments
 - b. Block comments
 - c. Documentation comments
 - d. Embedded comments

ANS: C

True or False

1. When you use the *Properties* window to change a control's Visible property at design time, the control will become invisible in the *Designer*.

ANS: F

2. A control's Visible property cannot be modified in code.

ANS: F

3. When you write the values true or false in code, they must be written in all lowercase letters.

ANS: T

4. When a method executes, the statements in the method always execute in the order that they appear, from the beginning of the method to the end of the method.

ANS: T

5. Comments are short notes intended for the compiler to read and interpret.

ANS: F

6. In C#, there are three types of comments: line comments, block comments, and compilation comments.

ANS: F

7. A line comment does not have to occupy an entire line, so a line comment can appear after an executable statement.

ANS: T

8. Block comments make it easier to write long explanations because you do not have to mark every line with a comment symbol.

ANS: T

9. Writing comments should be avoided, especially for large and complex programs.

ANS: F

10. The indentation of statements inside methods, classes, and namespaces is a convention that virtually all programmers follow.

ANS: T

11. The standard Windows close button is the only way to close a running application in Visual Studio.

ANS: F

12. If you double-click an error message in the Error List window, the code editor will highlight and display the line of code that caused the error.

ANS: T

13. Each form and control in an application's GUI is assigned a default name.

ANS: T

14. The appearance and other characteristics of a GUI object are determined by the object's properties.

ANS: T

15. The *Properties* window contains a scrollable list of properties, which has two columns: the left column shows each property's name, and the right column shows each property's value.

ANS: T

16. Changing a form's Text property will change the form's name.

ANS: F

17. When the properties in the *Properties* window are displayed alphabetically, the (name) property appears at the bottom of the list.

ANS: F

18. To add a control to a form, you find it in the *Toolbox* and then double-click it.

ANS: T

19. You cannot click and drag controls from the *Toolbox* onto a form.

ANS: F

20. Once a control has been added to a form, it cannot be deleted.

ANS: F

21. To remove a control from a form, you select it and then press the F4 key on the keyboard.

ANS: F

22. When you create Button controls, they are automatically given default names such as button1, button2, and so forth.

ANS: T

23. When Button control is created, its Text property is initially set to the same value as the Button control's name.

ANS: T

24. Text displayed on a button should hint at what the button will do when it is clicked.

ANS: T

25. A control's name should reflect the purpose of the control.

ANS: T

26. C# identifiers can contain spaces after the first character.

ANS: F

27. The first character of a C# identifier must be one of the letters a through z or A through Z or an underscore character (_).

ANS: T

28. A *Hello World* program is a simple program that merely displays the words *"Hello World"* on the screen.

ANS: T

29. The only way to run a program in Visual Studio is by clicking the *Start Debugging* button on the toolbar.

ANS: F

30. C# source code files always end with the .cs extension.

ANS: T

31. The Program.cs file contains auto-generated code that serves as an outline to which you should add your own code as you develop the application.

ANS: F

32. It is important that you do not modify the contents of the Form1.cs file because doing so will prevent the application from executing.

ANS: F

33. C# code is primarily organized in three ways: namespaces, classes, and methods.

ANS: T

34. C# code is organized using namespaces, which are contained inside classes, which are contained inside methods.

ANS: F

35. Each opening brace ({) of a code container must have a matching closing brace (}) later in the program.

ANS: T

36. You can detach the code editor window and use the mouse to drag it to another part of the screen.

ANS: T

37. When an event handler is generated for a control by Visual Studio, it doesn't do anything until you add your own code.

ANS: T

38. The .NET Framework provides a method named MessageBox. Show that you can use in Visual C# to display a pop-up message box.

ANS: T

39. Programmers refer to the act of executing a method as *calling* the method.

ANS: T

40. Single quotation marks can be used in program code to mark the beginning and ending of a string.

ANS: F

41. Ending a programming statement with a semicolon is not required in C#.

ANS: F

42. If you wish to create a Click event handler for a control in Visual Studio, it is not necessary to double-click the control in the *Designer* first.

ANS: F

43. In C#, string literals must be enclosed in double quotation marks.

ANS: T

44. Programmers sometimes say that literals are values that are *soft coded* into a program because the value of a literal can be changed while the program is running.

ANS: F

45. In a C# application, all buttons on a form must share the same Click event handler in form's source code file.

ANS: F

46. At run time, you should not use the *Designer*, *Toolbox*, *Properties* window, or code editor to modify the program.

ANS: F

47. The terms run time, runtime, and run-time all typically mean the same thing.

ANS: T

48. Once you have placed a Label control on a form, set its Text property to the string you want to display.

ANS: T

49. A Label control's Text property is initially set to the same value as the Label control's name.

ANS: T

50. A control's name should never be changed to something other than the default name that Visual Studio gives it.

ANS: F

51. A Label control's BorderStyle property is set to FixedSingle by default.

ANS: F

52. To change the BorderStyle property of a Label control in the *Designer*, select it in the *Properties* window and then click the down-arrow button that appears next to the value.

ANS: T

53. By default, a Label control's text is aligned with the top and left edges of the label's bounding box.

ANS: T

54. The assignment operator assigns the value that appears on its left side to the item that appears on its right side.

ANS: F

55. Because the Label control's Text property can accept only strings, you cannot display a number in a label.

ANS: F

56. In code, if you want to clear the text that is displayed in a Label control, you can assign an empty string ("") to the control's Text property.

ANS: T

57. When typing a statement in code, press the Tab key on the keyboard to accept suggestions made by the IntelliSense feature of Visual Studio.

ANS: T

58. In the *Designer*, the PictureBox tool is located in the *Common Controls* group in the *Toolbox* window.

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ANS: T

59. When the PictureBox control's SizeMode property is set to *AutoSize*, the PictureBox control is automatically resized to fit the size of the image being displayed.

ANS: T

60. PictureBox controls have a BorderStyle property, but it does not work like a Label control's BorderStyle property.

ANS: F

61. Buttons are the only controls that respond to Click events.

ANS: F