

Open Test - 1 (58/60)

An assembly is

- an executable file that includes the MSIL or IL

Before a C# application can be run, it must be compiled into a language called

- Microsoft Intermediate Language

IDE stands for

- integrated development environment

The .NET Framework Class Library consists of

- classes that are organized into namespaces

The primary components of the .NET Framework are the .NET Framework Class Library and the

- Common Language Runtime

To run the intermediate language for an application, Visual Studio provides the

- Common Language Runtime

To work with the files of a solution, you use a Visual Studio window called the

- Solution Explorer

What is the purpose of the .NET Framework Class Library?

- it provides pre-written code that can be used by .NET applications

What is the purpose of the Common Language Runtime?

- it manages the execution of .NET applications

What is the name of the Visual Studio window that contains controls that you can drag onto a form?

- Toolbox

A reference type stores

- a reference to an object

A structure is

- a value type

An enumeration defines a set of related

- constants

Assuming that total is a decimal variable, which of the following statements does not convert it to a string?

- `string s = String.Parse(total);`

Code Example 4-1

(Refer to Code Example 4-1.) What is the value of x after the following statement is executed?

`int x = j / i;`

```
decimal a = 2.5m;  
decimal b = 4.0m;  
decimal c = 12.7m;  
  
int i = 4;  
int j = 8;  
int k = 17;
```

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Code Example 4-1

(Refer to Code Example 4-1.) What is the value of x after the following statements are executed?

int x = 27;

x -= i;

```
decimal a = 2.5m;  
decimal b = 4.0m;  
decimal c = 12.7m;  
  
int i = 4;  
int j = 8;  
int k = 17;
```

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Code Example 4-1

(Refer to Code Example 4-1.) What is the value of x after the following statement is executed?

decimal x = (decimal)i / (decimal)j;

```
decimal a = 2.5m;  
decimal b = 4.0m;  
decimal c = 12.7m;  
  
int i = 4;  
int j = 8;  
int k = 17;
```

- 0.5

Code Example 4-1

(Refer to code example 4-1.) What is the value of x after the following statement is executed?

double x = Math.Pow(i, 2);

```
decimal a = 2.5m;  
decimal b = 4.0m;  
decimal c = 12.7m;  
  
int i = 4;  
int j = 8;  
int k = 17;
```

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Given the following enumeration, which valid statement assigns the enumeration's first value to the variable named terms?

```
enum Terms  
{  
    Net30Days  
    Net60Days  
    Net90Days  
}
```

- `int terms = Net30Days;`

How many times will the statements in the following while loop be executed?

```
decimal monthlyInterestRate = .01m;  
int months = 10;  
decimal futureValue = 1000m;  
int i = 1;  
while (i < months)  
{  
    futureValue = futureValue * (1 + monthlyInterestRate);  
    i++;  
}
```

- 9 times

If orderTotal has a value of 50 and quantity has a value of 10, what is the value of discount after these statements are executed?

```
if (quantity == 1 || quantity == 2)  
    discount = 0;
```

```
else if (quantity >= 3 && quantity < 10)
    discount = orderTotal * .1;
else if (quantity > 10 && quantity <= 25)
    discount = orderTotal * .2;
else
    discount = orderTotal * .3;
```

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If you code a break statement in a loop, it will cause the application

- to jump to the end of the loop

If you code a continue statement in a loop, it will cause the application

- to jump to the beginning of the loop

If quantity has a value of 2, what is the value of discount after these statements are executed?

```
switch (quantity)
{
    case 1:
        discount = 0;
        break;
    case 2:
    case 3:
        discount = .1;
        break;
    default:
        discount = .2;
        break;
}
```

- .1

In a do-while loop, the Boolean expression is tested

- after the loop is executed

In a while loop, the Boolean expression is tested

- before the loop is executed

In break mode, the window that displays the values of the variables in the scope of the current method is called the _____ window.

- locals

The bool data type stores a

- true or false value

The first expression that's coded within the parentheses in a for loop

- assigns a starting value to a counter variable

To assign a more precise numeric data type to a less precise numeric data type, you can code

- an explicit cast

Variables named according to camel notation

- capitalize the first letter of every word after the first word

What event does Visual Studio generate code for when you double-click a button in the Form Designer?

- Click

What is the name of the method generated when you double-click a button named btnProcess in the Form Designer?

- btnProcess_Click

What is the value of sum after the following code is executed?

```
int sum = 0;
for (int i = 10; i < 40; i *= 2)
{
    sum += i;
}
```

- 30

What is the value of the cityState string after these statements are executed?

```
cityState = "Milwaukee";
cityState += "," + "Wisconsin";
```

- Milwaukee,Wisconsin

When you set a breakpoint at a statement and run the application, the application enters break mode

- just before that statement is executed

Which of the following data types can't be used for storing the number 123.4567?

- int

Which of the following operators is not a logical operator?

- >

Which of the following statements results in a string that appears like this when displayed?

```
c:\murach\files
```

- String s = @"c:\murach\files";

Which of the following statements results in a string that looks like this when displayed?

```
c:\murach\files
```

- `string s = "c:\\murach\\files";`

Which statement is equivalent to the following statement?

```
total = total + tax;
```

- `total += tax;`

In C#, dates and times are actually stored as the number of

- ticks that have elapsed since January 1, 0001

The Autos window displays information about

- variables used by the current statement and the previous statement

The Locals window displays information about

- variables within the scope of the current method

The Watch window displays information about

- expressions you have added to the Watch window

The `string` keyword is an alias for the _____ class.

- `System.String`

The _____ class lets you create mutable strings.

- `StringBuilder`

To convert a `StringBuilder` object to a `String`, you can use

- the `ToString` method of the object

To display a dialog box, you can use the Show method of

- the MessageBox class

What is the value of kilos[1] after the code that follows is executed?

```
decimal[] kilos = {200, 100, 48, 59, 72};  
for (int i = 0; i < kilos.Length; i++)  
{  
    kilos[i] *= 2.2;  
}
```

- 220.0

What is the value of the variable named s after the following statements are executed?

```
string fullName = "Miller, Edward";  
int i = fullName.IndexOf(",");  
string s = fullName.Substring(0, i);
```

- Miller

What is the value of the variable named s after the following statements are executed?

```
decimal d = 3892.22m;  
string s = String.Format("{0:c}", d);
```

- \$3,892.22

What is the value of the variable named s after the following statements are executed?

```
decimal d = 3892.22m;  
string s = String.Format("{0:####0.00}", d);
```

- 3892.22

What is the value of the variable named s after the following statements have been executed?

```
string fullName = "Miller, Edward";  
int i = fullName.IndexOf(",");  
string s = fullName.Substring(i + 1);
```

- Edward

What is the value of the variable named s2 after the following statements are executed?

```
string s1 = "abcdefg";  
string s2 = "";  
for (int i = 0; i < s1.Length; i+=2)  
    s2 += s1[i];
```

- aceg

What is the value of the variable named s2 after the following statements have been executed?

```
string s1 = "118-45-9271";  
string s2 = "";  
for (int i = 0; i < s1.Length; i++)  
    if (s1[i] != '-')  
        s2 += s1[i];  
s2 = s2.Replace('-', '.');
```

- 118459271

What is the value of the variable named s2 after the following statements have been executed?

```
string s1 = "The quick brown fox";  
string[] words = s1.Split(' ');  
string s2 = words[words.Length - 1];
```

- fox

What method can you use to remove spaces from the beginning and end of a string?

- Trim

Which of the following is not true about the null-conditional operator?

- It can only be used with reference types.

Which property of the DateTime structure returns the current date with the time set to 12:00:00 AM?

- Today