

98-361^{Q&As}

Software Development Fundamentals

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QUESTION 1

You are reviewing the following code that saves uploaded images.

```
Public Structure ImageInfo
    Public Data As Byte()
    Public Length As Integer
    Public Id As Guid
End Structure

Public Sub Post()
    Dim uploaded = PostedImage()
    Dim newImage = New ImageInfo()
    newImage.Data = uploaded
    newImage.Length = uploaded.Length
    newImage.Id = Guid.NewGuid()
End Sub
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.\'

Hot Area:

Answer Area

Description of Behavior	Yes	No
The bytes that comprise the image are stored on the stack.	<input type="radio"/>	<input type="radio"/>
The length of the image data is stored on the heap.	<input type="radio"/>	<input type="radio"/>
The Id of the image is stored on the stack.	<input type="radio"/>	<input type="radio"/>

Hot Area:

Answer Area

Description of Behavior	Yes	No
The bytes that comprise the image are stored on the stack.	<input type="radio"/>	<input type="radio"/>
The length of the image data is stored on the heap.	<input type="radio"/>	<input type="radio"/>
The Id of the image is stored on the stack.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Description of Behavior	Yes	No
The bytes that comprise the image are stored on the stack.	<input type="radio"/>	<input checked="" type="radio"/>
The length of the image data is stored on the heap.	<input type="radio"/>	<input checked="" type="radio"/>
The Id of the image is stored on the stack.	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 2

You are creating a routine that will perform calculations by using a repetition structure. You need to ensure that the entire loop executes at least once. Which looping structure should you use?

- A. For-Each
- B. For
- C. While
- D. Do-While

Correct Answer: D

In a Do..While loop the test is at the end of the structure, so it will be executed at least once.

QUESTION 3

You execute the following code.

```
for(int i = 0; i <= 100; i++)  
{  
    if (i % 2 != 0)  
    {  
        Console.WriteLine("Hello")  
    }  
}
```

How many times will the word Hello be printed?

- A. 49
- B. 50
- C. 51
- D. 100

Correct Answer: B

The % operator computes the remainder after dividing its first operand by its second. All numeric types have predefined remainder operators. In this case the remainder will be nonzero 50 times (for i with values 1, 3, 5,...,99).

QUESTION 4

You have a SQL Server database named MyDB that uses SQL Server Authentication. Which connection string should you use to connect to MyDB?

- A. Data Source=MyDB; Integrated Security=SSPf; Initial Catalog=Sales
- B. Data Source=MyDB; Trusted_Connection=True; MultipleActiveResultSets=True; Initial Catalog=Sales
- C. Data Source=MyDB; Integrated Security=True; Initial Catalog=Sales
- D. Data Source=MyDB; UserID=username; Password=P@sswOrd; Initial Catalog=Sales

Correct Answer: A

QUESTION 5

You are developing a web application.

You need to create the following graphic by using Cascading Style Sheets (CSS):



Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.

Hot Area:

Answer Area

For the CSS Style **background-image**, you should use the value **[answer choice]**

linear-gradient(to top, green, black);

linear-gradient(to bottom, green, black);

radial-gradient(green, black);

repeating-linear-gradient(green, black);

For the CSS Style **border-radius**, you should use the value **[answer choice]**

10px;

10px, 10px, 10px;

inherit;

initial;

Hot Area:

Answer Area

For the CSS Style **background-image**, you should use the value **[answer choice]**

linear-gradient(to top, green, black);

linear-gradient(to bottom, green, black);

radial-gradient(green, black);

repeating-linear-gradient(green, black);

For the CSS Style **border-radius**, you should use the value **[answer choice]**

10px;

10px, 10px, 10px;

inherit;

initial;

Correct Answer:

Answer Area

For the CSS Style **background-image**, you should use the value **[answer choice]**

linear-gradient(to top, green, black);

linear-gradient(to bottom, green, black);

radial-gradient(green, black);

repeating-linear-gradient(green, black);

For the CSS Style **border-radius**, you should use the value **[answer choice]**

10px;

10px, 10px, 10px;

inherit;

initial;

QUESTION 6

The purpose of the Finally section in an exception handler is to:

- A. Execute code only when an exception is thrown.
- B. Break out of the error handler.
- C. Execute code regardless of whether an exception is thrown.
- D. Conclude the execution of the application.

Correct Answer: C

By using a finally block, you can clean up any resources that are allocated in a try block, and you can run code even if an exception occurs in the try block. Typically, the statements of a finally block run when control leaves a try statement. The transfer of control can occur as a result of normal execution, of execution of a break, continue, goto, or return statement, or of propagation of an exception out of the try statement.

QUESTION 7

This question requires that you evaluate the underlined text to determine if it is correct.

The benefit of using a transaction when updating multiple tables is that the update cannot fail.

Select the correct answer if the underlined text does not make the statement correct. Select "No change is needed" if the underlined text makes the statement correct.

- A. No change is needed
- B. succeeds or fails as a unit
- C. finishes as quickly as possible
- D. can be completed concurrently with other transactions

Correct Answer: B

QUESTION 8

You have a Microsoft ASP.NET web application.

You need to store a value that can be shared across users on the server.

Which type of state management should you use?

- A. Session
- B. ViewState
- C. Application
- D. Cookies

Correct Answer: A

QUESTION 9

How does a console-based application differ from a Windows Forms application?

- A. Console-based applications require the XNA Framework to run.
- B. Windows Forms applications do not provide a method for user input.
- C. Windows Forms applications can access network resources.
- D. Console-based applications do not display a graphical interface.

Correct Answer: D

QUESTION 10

You are writing a Web application that processes room reservation requests. You need to verify that the room that a guest has selected is not already reserved by another guest.

Which type of programming should you use to determine whether the room is still available when the request is made?

- A. client-side
- B. batch processing
- C. server-side
- D. multithreaded

Correct Answer: C

For room availability we need to check a database located on a server.

QUESTION 11

You are creating a database for a student directory. The Students table contains the following fields:

```
firstName  
lastName  
emailAddress  
telephoneNumber
```

Which statement will retrieve only the first name, last name, and telephone number for every student listed in the directory?

- A. WHERE Students SELECT *
- B. SELECT firstName, lastName, telephoneNutnber FROM Students
- C. SELECT firstName, lastName, telephoneNumber IN Students
- D. SELECT * FROM Students
- E. WHERE Students SELECT firstName, lastName, telephoneNumber

Correct Answer: D

QUESTION 12

Which term is used to describe a class that inherits functionality from an existing class?

- A. Base class
- B. Inherited class
- C. Derived class
- D. Superclass

Correct Answer: C

Classes (but not structs) support the concept of inheritance. A class that derives from another class (the base class) automatically contains all the public, protected, and internal members of the base class except its constructors and destructors.

QUESTION 13

In your student directory database, the Students table contains the following fields: firstName lastName emailAddress telephoneNumtoer You need to retrieve the data from the firstName, lastName, and emailAddress fields for all students listed in the directory. The results must be in alphabetical order according to lastName and then firstName.

Which statement should you use?

- A.

```
SELECT firstName, lastName, emailAddress
FROM Students
ORDER BY lastName, firstName
```
- B.

```
SELECT firstName, lastName, emailAddress
FROM Students
SORT BY lastName, firstName
```
- C.

```
SELECT firstName, lastName
FROM Students
ORDER BY lastName, firstName, emailAddress
```
- D.

```
SELECT firstName, lastName, emailAddress
FROM Students BY lastName, firstName
```

A. B. C. D.

Correct Answer: A

to sort use: ORDER BY LastName, FirstName

QUESTION 14

You create an object of type ANumber. The class is defined as follows.

```
public Class ANumber
{
    private int _number = 7;

    public ANumber()
    {
    }

    public ANumber(int number)
    {
        _number = number;
    }
}
```

The code is executed as follows.

```
ANumber mynumber = new ANumber(3);
```

What is the value of _number after the code is executed?

- A. Null
- B. 0
- C. 3

D. 7

Correct Answer: C

QUESTION 15

How does a console-based application differ from a Windows Forms application?

- A. Windows Forms applications can access network resources.
- B. Console-based applications do not display a graphical interface.
- C. Console-based applications require the XNA Framework to run.
- D. Windows Forms applications do not provide a method for user input.

Correct Answer: B

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