



70-483^{Q&As}

Programming in C#

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QUESTION 1

You are developing an application. The application includes a method named ReadFile that reads data from a file.

The ReadFile() method must meet the following requirements:

It must not make changes to the data file.

It must allow other processes to access the data file. It must not throw an exception if the application attempts to open a data file that does not exist.

You need to implement the ReadFile() method.

Which code segment should you use?

- A. `var fs = File.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read, FileShare.ReadWrite);`
- B. `var fs = File.Open(Filename, FileMode.Open, FileAccess.Read, FileShare.ReadWrite);`
- C. `var fs = File.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read, FileShare.Write);`
- D. `var fs = File.ReadAllLines(Filename);`
- E. `var fs = File.ReadAllBytes(Filename);`

Correct Answer: A

`FileMode.OpenOrCreate` - Specifies that the operating system should open a file if it exists; otherwise, a new file should be created. If the file is opened with `FileAccess.Read`, `FileIOPermissionAccess.Read` permission is required. If the file access is `FileAccess.Write`, `FileIOPermissionAccess.Write` permission is required. If the file is opened with `FileAccess.ReadWrite`, both `FileIOPermissionAccess.Read` and `FileIOPermissionAccess.Write` permissions are required.

<http://msdn.microsoft.com/en-us/library/system.io.filemode.aspx>

`FileShare.ReadWrite` - Allows subsequent opening of the file for reading or writing. If this flag is not specified, any request to open the file for reading or writing (by this process or another process) will fail until the file is closed. However, even if this flag is specified, additional permissions might still be needed to access the file. <http://msdn.microsoft.com/pl-pl/library/system.io.fileshare.aspx>

QUESTION 2

You are developing an application that includes methods named EvaluateLoan, ProcessLoan, and FundLoan. The application defines build configurations named TRIAL, BASIC, and ADVANCED.

You have the following requirements:

The TRIAL build configuration must run only the EvaluateLoan() method. The BASIC build configuration must run all three methods. The ADVANCED build configuration must run only the EvaluateLoan() and ProcessLoan() methods.

You need to meet the requirements.

Which code segment should you use?



A.

```
#if TRIAL
#warning EvaluateLoan();
#error ProcessLoan();
#error FundLoan();
#elif ADVANCED
#warning EvaluateLoan();
#warning ProcessLoan();
#warning FundLoan();
#else
#warning EvaluateLoan();
#warning ProcessLoan();
#error FundLoan();
#endif
```

B.

```
#if TRIAL
    EvaluateLoan();
#elif ADVANCED
    EvaluateLoan();
    ProcessLoan();
    FundLoan();
#else
    EvaluateLoan();
    ProcessLoan();
#endif
```

C.

```
#if TRIAL
    EvaluateLoan();
#elif BASIC
    EvaluateLoan();
    ProcessLoan();
    FundLoan();
#else
    EvaluateLoan();
    ProcessLoan();
#endif
```

D.

```
#if TRIAL
    EvaluateLoan();
#elif BASIC
    EvaluateLoan();
    ProcessLoan();
#error FundLoan();
#else
    EvaluateLoan();
    ProcessLoan();
    FundLoan();
#endif
```

A. Option A

B. Option B



C. Option C

D. Option D

Correct Answer: C

Incorrect:

Not B: The BASIC configuration must run all three methods. Not D: The BASIC configuration must run all three methods.

QUESTION 3

You are developing an application that will transmit large amounts of data between a client computer and a server. You need to ensure the validity of the data by using a cryptographic hashing algorithm. Which algorithm should you use?

A. RSA

B. Aes

C. HMACSHA256

D. DES

Correct Answer: C

QUESTION 4

You are developing a method named GetHash that will return a hash value for a file. The method includes the following code. (Line numbers are included for reference only.)

```
01 public byte[] GetHash(string filename, string algorithmType)
02 {
03     var hasher = HashAlgorithm.Create(algorithmType);
04     var fileBytes = System.IO.File.ReadAllBytes(filename);
05
06 }
```

You need to return the cryptographic hash of the bytes contained in the fileBytes variable. Which code segment should you insert at line 05?



- A.

```
var outputBuffer = new byte[fileBytes.Length];  
hasher.TransformBlock(fileBytes, 0, fileBytes.Length, outputBuffer, 0);  
hasher.TransformFinalBlock(fileBytes, fileBytes.Length - 1, fileBytes.Length);  
return outputBuffer;
```
- B.

```
hasher.ComputeHash(fileBytes);  
return hasher.GetHashCode();
```
- C.

```
var outputBuffer = new byte[fileBytes.Length];  
hasher.TransformBlock(fileBytes, 0, fileBytes.Length, outputBuffer, 0);  
return outputBuffer;
```
- D.

```
hasher.ComputeHash(fileBytes);  
return hasher.Hash;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

Explanation: The `hashAlgorithm.ComputeHash` computes the hash value for the input data. Reference: `HashAlgorithm.ComputeHash` Method [https://msdn.microsoft.com/en](https://msdn.microsoft.com/en-us/library/system.security.cryptography.hashalgorithm.computehash(v=vs.110).aspx)

[us/library/system.security.cryptography.hashalgorithm.computehash\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.security.cryptography.hashalgorithm.computehash(v=vs.110).aspx)

QUESTION 5

DRAG DROP

You are developing an application that will write data to a file. The application includes the following code segment. (Line numbers are included for reference only.)

You need to ensure that the `WriteData()` method will write data to a file.

Which four code segments should you insert in sequence at line 03? (To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.)

Select and Place:



```
writer.Write(data);  
  
writer = new StreamWriter(fileName);  
  
StreamWriter writer = null;  
  
writer.Close();  
  
writer.Open();
```

Correct Answer:

```
StreamWriter writer = null;  
  
writer = new StreamWriter(fileName);  
  
writer.Write(data);  
  
writer.Close();  
  
writer.Open();
```

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