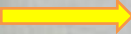


# DAC

Answered: 40 | For Review: 0

1. JIT compilation converts \_\_\_\_\_ to \_\_\_\_\_ at application run time.


- A. Source code to IL Code
- B. Source code to Byte Code
-  C. IL to Native code
- D. IL to Assembly code

☐ A ☐ B ☒ C ☐ D

Clear Answer

Mark For Review

2. The Garbage Collector runs in the following situation

- A. When you set a reference variable to null
- B. When the destructor is called
- C. When an object goes out of scope
-  D. When the system has low physical memory

Explanation:

Garbage collection occurs when one of the following conditions is true:

1. The system has low physical memory. This is detected by either the low memory notification from the OS or low memory as indicated by the host.

2. The memory that's used by allocated objects on the managed heap surpasses an acceptable threshold. This threshold is continuously adjusted as the process runs.

3. The GC.Collect() method is called.

Answered: 40 | ? For Review: 0

☐ A ☐ B ☐ C ☐ D

3. \_\_\_\_\_ is a common set of rules that all .net languages must follow

- ☒ A. CLS  
☐ B. MSIL  
☐ C. IL  
☐ D. App Domains

CLS stands for Common Language Specification and it is a subset of CTS. It defines a set of rules and restrictions that every language must follow which runs under the .NET framework.

☐ A ☐ B ☐ C ☐ D

4. The .Net equivalent of a float in CSharp is \_\_\_\_\_

- ☐ A. System.Float  
☐ B. System.Double  
☒ C. System.Single  
☐ D. System.Decimal

☐ A ☐ B ☐ C ☐ D

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F6 F7 F8 F9 F10 F11 F12  
9 0


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☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

5. Which of the following is the correct syntax for a property accessor?

- A. `public int P1{ private get{...} private set{...} }`
-  B. `protected int P1{ private get{...} set{...} }`
- C. `private int P1{ public get{...} set{...} }`
- D. `protected int P1{ public get{...} set{...} }`

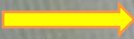
Try All in Visual Studio  
Except B All give Error

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

6. Why should you not write cleanup code in a Destructor in .Net?

- A. There is no Destructor in .Net
- B. There is no Destructor in CSharp
- C. The statement is incorrect. You should write cleanup code in a Destructor
-  D. .Net follows nondeterministic finalization

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

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F7

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F9


F10

F11

## DAC

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7. When is the static constructor called?


- A. When the Assembly is loaded in memory
- B. When the Main() function is run
- C. When any object of the class is created
-  D. When the class is loaded into memory

☐ B ☐ C ☐ D

Clear Answer

Mark For Review

8. Which of the following statements is false

-  A. Any base class method can be overridden in the derived class
- B. The derived class method must have the same signature as the base class method to override it
- C. The derived class method must have the override keyword to override a base class method
- D. Late binding occurs when you call a method that has been overridden

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9. Which of the following statements is false

- A. An abstract class need not have an abstract method
- B. All abstract methods are late bound
- C. An abstract method must exist in an abstract class
-  D. An abstract method can be implemented in the derived class by using the 'implements' keyword

An abstract method must be implemented in all non-abstract classes using the **override** keyword

A ☐ B ☐ C ☐ D ☐

Clear Answer

Mark For Review

10. An interface can be explicitly implemented using the following syntax

- A. 

```
public class MyClass : IMyInterface
{
    public void InterfaceMethod(){}
}
```
- B. 

```
public class MyClass : IMyInterface
{
    public void InterfaceMethod : IMyInterface(){}
}
```

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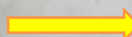
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10. An interface can be explicitly implemented using the following syntax

- A. `public class MyClass : IMyInterface`  
`{`  
`public void InterfaceMethod(){}`  
`}`
- B. `public class MyClass : IMyInterface`  
`{`  
`public void InterfaceMethod : IMyInterface(){}`  
`}`
- C. `public class MyClass : IMyInterface`  
`{`  
`public void IMyInterface:InterfaceMethod(){}`  
`}`
- D. `public class MyClass : IMyInterface`  
`{`  
`void IMyInterface:InterfaceMethod(){}`  
`}`

answered: 40 | ? For Review: 0

11. Which of these is not a reference type

-  A. Enum  
B. Delegate  
C. Array  
D. Interface

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

12. What will be the output of the following code snippet?

```
public class Class1 {public int l{get;set;}}  
public class MainClass  
{  
    public static void Main()  
    {  
        Class1 o1= new Class1{l=10};  
        Class1 o2= new Class1{l=20};  
        Swap(o1,o2);  
        Console.WriteLine($"{o1.l},{o2.l}");  
    }  
}
```



```

namespace BankingApp
{
    7 references
    public class Class1 { public int I { get; set; } }
    0 references
    public class Program
    {
        0 references
        static void Main(string[] args)
        {
            Class1 O1 = new Class1 { I = 10 };
            Class1 O2 = new Class1 { I = 20 };
            swap(O1, O2);
            Console.WriteLine($"{O1.I},{O2.I}");
        }

        1 reference
        public static void swap(Class1 O1, Class1 O2)
        {
            Class1 temp = O1;
            O1 = O2;
            O2 = temp;
        }
    }
}

```

C:\WINDOWS\system32\cmd.exe  
10,20  
Press any key to continue . . .

```

        Console.WriteLine($"{O1.I},{O2.I}");
    }
    public static void Swap(Class1 o1, Class1 o2)
    {
        Class1 temp=o1;
        o1 = o2;
        o2 = temp;
    }
}

```

A. Compilation Error  
B. Runtime Error  
C. 10,20  
D. 20,10



answered: 40 | 7 For Review: 0

13. Give the output of the following code snippet

```
int[, ,] arr = new int[5,3,4];  
Console.Write(arr.Rank + ",");  
Console.Write(arr.GetLength(1));
```

A. 3,5

B. 2,5

→ C. 3,3

D. 3,4

☐ A ☐ B ☒ C ☐ D

0 references

```
static void Main(string[] args)  
{  
    int[, ,] arr = new int[5,3,4];  
    Console.Write(arr.Rank+",");  
    Console.Write(arr.GetLength(1));  
    Console.WriteLine();  
    Console.WriteLine(arr.GetLength(2));  
}
```

C:\WINDOWS\system32\cmd.exe

0 references

```
put 3,3  
4  
{ Press any key to continue . . .
```

14. Which of these statements is false for a struct?

A. All structs are value types

→ B. A struct can contain a constructor with no parameters

C. A struct can contain a property

D. A struct can contain a private member


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☐ B ☐ C ☐ D

15. What does ICollection<T> directly inherit from

- A. Object
-  B. IEnumerable<T>
- C. ICollection
- D. IList<T>

☐ B ☐ C ☐ D

16. To iterate through a SortedList<int,string> using a foreach loop, we use the following class

- A. var
- B. SortedList<int,string>
- C. DictionaryEntry
-  D. KeyValuePair< int,string>

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## DAC

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17. To call a method that has a void return value, use the following inbuilt delegate

- A. Action
- B. Func
- C. Predicate
- D. Delegate

3 ☐ C ☐ D

Clear Answer

Mark For Review

18. What would be the output of the following code snippet?

```
public static void Main()
{
    try
    {
        int i = 100, j = 0;
        i /= j;
        Console.Write(i);
    }
    catch (SystemException ex)
    {
        Console.WriteLine("SystemException");
    }
}
```

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18. What would be the output of the following code snippet?

```
public static void Main()
{
    try
    {
        int i = 100, j = 0;
        i /= j;
        Console.Write(i);
    }
    catch (SystemException ex)
    {
        Console.WriteLine("SystemException");
    }
    catch (DivideByZeroException ex)
    {
        Console.WriteLine("DivideByZeroException");
    }
    catch (Exception ex)
    {
        Console.WriteLine("Exception");
    }
}
```

- A. SystemException
- B. DivideByZeroException
- C. Exception
- D. Code will not compile




```
static void Main(string[] args)
```

```
{
    try
    {
        int i = 100, j = 0;
        i /= j;
        Console.WriteLine(i);
    }
    catch(SystemException ex)
    {
        Console.WriteLine("System Exception");
    }
    catch (DivideByZeroException ex)
    {
        Console.WriteLine("DivideByZeroException");
    }
    catch(Exception ex)
    {
        Console.WriteLine("Exception");
    }
}
```

[Sheet](#)


```
//Create Delegate Instance that points to the Method  
MyDelegate d = new MyDelegate(obj.calculateFunction);  
//Invoke the Delegate, which calls the method  
Console.WriteLine(d(12, 22));
```

19. To asynchronously call a method which takes a string parameter and does not have a return value using a delegate, the correct syntax would be :

- A. MethodName("Hello");
-  B. DelegateObjectName("Hello");
- C. DelegateClassName("Hello");
- D. DelegateObjectName.BeginInvoke(null, null, "Hello");

☐ ☐ C ☐ D

20. Which of these will generate a compilation error

-  A. var employees =  
    emps.Select(emp=>emp.Name).Where(emp=>emp.Name.StartsWith("A"));
- B. var employees =  
    emps.Where(emp=>emp.Name.StartsWith("A")).Select(emp=>emp.Name);
- C. var employees = emps.Where(emp=>emp.Name.StartsWith("A"));
- D. var employees = emps.Select(emp=>emp.Name);

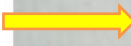
Explanation :-

First used Select then Used Where Statement it is wrong  
End of LINQ Query is only Select or GroupBy

## DAC


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21. Which of these LINQ methods provides immediate execution?

- A. `var x = y.AsParallel()`
-  B. `var x = y.ToList()`
- C. `var x = y.Select(...)`
- D. `var x = y.Where(...)`

☒ B ☐ C ☐ D ☐ D  

22. Which command given at the command line is used to register an assembly as a shared assembly

- A. SharedUtil
-  B. GacUtil
- C. InstallUtil
- D. AssemblyUtil

global assembly cache (GAC)

☐ B ☐ C ☐ D ☐ D  [Examination Instruction](#) [Download Response Sheet](#)

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## DAC

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C O D

Clear Answer

Mark For Review

23. Which does the FileMode.CreateNew do while opening a file?

- A. Overwrites a file if file already present. Creates a new file if file not present
- B. Overwrites a file if file already present. Throws an exception if file not present
- C. Throws an exception if file already present. Creates a new file if file not present
- D. Adds to a file if file already present. Creates a new file if file not present

CreateNew 1 Specifies that the operating system should create a new file. This requires [Write](#) permission. If the file already exists, an [IOException](#) exception is thrown.

24. In Reflection, the following class is used to represent the details of a Class


- A. Class
- B. Type
- C. ReferenceType
- D. Object

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25. To use a thread already created and maintained by the CLR, we use the following class from System.Threading

- A. Thread
-  B. ThreadPool
- C. ThreadStart
- D. ParameterizedThreadStart

☐ C ☐ D

26. To create a Task and start it immediately, we do the following

-  A. Create a Task object and call the taskobject.Start() method
- B. Create a Task object and call the taskobject.Run() method
- C. Create a Task object and pass the methodname as a parameter
- D. Call Task.Run()

☐ B ☐ C ☐ D


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☐ C ☐ D

27. All Controllers in ASP.NET MVC (.Net Framework) inherit from the following class

-  A. Controller
- B. ControllerBase
- C. Object
- D. AsyncController

☐ B ☐ C ☐ D

28. All models in ASP.NET MVC inherit from the following class

-  A. Object
- B. Model
- C. Controller
- D. View

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29. Which of these is available from the Controller to the View only and not in subsequent requests or redirects?

- ☒ A. ViewData variable
- ☐ B. TempData variable
- ☐ C. Session variable
- ☐ D. Cache variable

☐ B ☐ C ☐ D

30. Which of these is available from in subsequent requests for the current user only?

- ☐ A. ViewData variable
- ☐ B. TempData variable
- ☒ C. Session variable
- ☐ D. Cookie

☐ B ☐ C ☐ D

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31. Which of these Data Annotations allow us to specify pattern matching

- ☒ A. RegularExpression
- ☐ B. CustomValidation
- ☐ C. DataType
- ☐ D. DisplayFormat

☐ B ☐ C ☐ D

32. In ASP.NET MVC, bundling and minification can be turned on by doing the following in the compilation section in web.config

- ☐ A. Set bundling = True
- ☐ B. Set minification = True
- ☒ C. Set debug = False
- ☐ D. Set debug = True

☐ B ☐ C ☐ D

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☐ C ☐ D

Clear Answer

Mark For Review

33. How do you ensure that a user must be logged in to call a particular Action method?


-  A. [Authorize]
- B. [Authenticate]
- C. [AllowAnonymous]
- D. [NoAction]

☐ B ☐ C ☐ D

Clear Answer

Mark For Review

34. In the following Entity Framework technique, the class is written first and the database generated from the classes


- A. ModelFirst
-  B. CodeFirst
- C. DbFirst
- D. EntityFirst

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35. Which of the following statements is False?


- A. A SqlDataReader requires an open connection
-  B. A DataSet requires an open connection
- C. A SqlCommand requires an open connection
- D. A SqlTransaction requires an open connection

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review

36. To run a command that returns a single value use the following

- A. Command.ExecuteReader()
- B. Command.ExecuteNonQuery()
-  C. Command.ExecuteScalar()
- D. Command.Single()

☐ A ☐ B ☐ C ☐ D

Clear Answer

Mark For Review


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☐ C ☐ D  

37. To create a SqlDataReader in a function and to return the SqlDataReader from the function, ideally the SqlDataReader should be opened in the following manner

- A. SqlDataReader dr = cmd.OpenReader();
-  B. SqlDataReader dr = cmd.ExecuteReader();
- C. SqlDataReader dr = cmd.ExecuteReader(CommandBehavior.CloseConnection);
- D. SqlDataReader dr = cmd.Read();

☐ C ☐ D  

38. Which of these WCF bindings is used to create a REST service?

- A. BasicHttpBinding
- B. WsHttpBinding
-  C. WebHttpBinding
- D. RestHttpBinding

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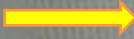
☐ B ☐ C ☐ D  

39. For Web API, which of these methods is used to perform an update

- A. Get
-  B. Put
- C. Post
- D. Delete

☐ B ☐ C ☐ D  

40. In ASP.NET MVC CORE, what is the syntax to store a string in a session variable

- A. Session["key"] = "Hello";
- B. HttpContext.Session.Set("key", "Hello");
- C. HttpContext.Session.SetInt32("key", "Hello");
-  D. HttpContext.Session.SetString("key", "Hello");

☐ A ☐ B ☐ C ☐ D  

```
const string SessionName = "_Name";
const string SessionAge = "_Age";
public IActionResult Index()
{
    HttpContext.Session.SetString(SessionName, "Jarvik");
    HttpContext.Session.SetInt32(SessionAge, 24);
    return View();
}
```