```
### 1. What will be the output of the following C# code?
```csharp
int x = 10;
int y = x++;
Console.WriteLine(y);
- A) 10
- B) 11
- C) 9
- D) Compilation Error
- **Answer:** A) 10
2. Which of the following is correct about C# 'string' type?
- A) 'string' is a value type.
- B) `string` is a reference type.
- C) `string` is a pointer type.
- D) `string` is a nullable type.
- **Answer:** B) `string` is a reference type.
3. What will be the output of the following C# code?
```csharp
int a = 5;
int b = 10;
Console.WriteLine(a == b ? "Equal" : "Not Equal");
- A) Equal
- B) Not Equal
- C) Compilation Error
- D) Runtime Error
- **Answer:** B) Not Equal
```

```
- A) `Array.Sort()`
- B) `Array.Order()`
- C) `Array.Reverse()`
- D) `Array.Sorted()`
- **Answer:** A) `Array.Sort()`
### 5. What will be the output of the following code?
```csharp
string s1 = "abc";
string s2 = "abc";
Console.WriteLine(Object.ReferenceEquals(s1, s2));
- A) True
- B) False
- C) Null
- D) Compilation Error
- **Answer:** A) True
6. Which of the following can be used as a base class in C#?
- A) Sealed class
- B) Abstract class
- C) Static class
- D) Partial class
- **Answer:** B) Abstract class
7. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4 };
Console.WriteLine(arr[4]);
```

4. Which of the following methods is used to sort an array in C#?

```
- A) 4
- B) 0
- C) IndexOutOfRangeException
- D) Compilation Error
- **Answer:** C) IndexOutOfRangeException
### 8. Which of the following keywords is used to inherit a class in C#?
- A) `inherits`
- B) 'extends'
- C) `derived`
- D) `:`
- **Answer:** D) `:`
### 9. What will be the output of the following C# code?
```csharp
double a = 10.5;
int b = (int)a;
Console.WriteLine(b);
- A) 10
- B) 11
- C) 10.5
- D) Compilation Error
- **Answer:** A) 10
10. What is the output of the following C# code?
```csharp
int[] arr = {1, 2, 3, 4, 5};
int sum = 0;
for(int i = 0; i < arr.Length; i++)</pre>
{
```

```
sum += arr[i];
  if(sum > 10)
    break;
}
Console.WriteLine(sum);
- A) 15
- B) 10
- C) 6
- D) 11
- **Answer:** D) 11
### 11. What will be the output of the following C# code?
```csharp
int x = 5;
int y = ++x * 2;
Console.WriteLine(y);
- A) 10
- B) 12
- C) 14
- D) 16
- **Answer:** B) 12
12. Which of the following statements about delegates in C# is true?
- A) Delegates are value types.
- B) Delegates can only point to methods that have a matching signature.
- C) Delegates are not type-safe.
- D) Delegates cannot be multicast.
- **Answer:** B) Delegates can only point to methods that have a matching signature.
```

### 13. What will be the output of the following C# code?

```
```csharp
string str = null;
Console.WriteLine(str?.Length??-1);
- A) 0
- B) -1
- C) NullReferenceException
- D) Compilation Error
- **Answer:** B) -1
### 14. Which of the following is a valid statement about interfaces in C#?
- A) An interface can provide implementation of methods.
- B) An interface can have instance fields.
- C) A class can implement multiple interfaces.
- D) Interfaces cannot inherit other interfaces.
- **Answer:** C) A class can implement multiple interfaces.
### 15. What will be the output of the following C# code?
```csharp
int[] arr = new int[3];
Console.WriteLine(arr[0]);
- A) 0
- B) 1
- C) Null
- D) Compilation Error
- **Answer:** A) 0
16. Which of the following is true about the `readonly` keyword in C#?
- A) `readonly` fields can only be assigned at declaration or in a constructor.
```

- B) 'readonly' fields can be modified anywhere in the class.

```
- C) `readonly` is the same as `const`.
- D) 'readonly' fields must be static.
- **Answer:** A) `readonly` fields can only be assigned at declaration or in a constructor.
17. What will be the output of the following C# code?
```csharp
int a = 5, b = 0;
try
{
  int c = a / b;
}
catch (DivideByZeroException)
{
  Console.WriteLine("Divide by zero");
}
finally
{
  Console.WriteLine("Finally block");
}
...
- A) Divide by zero
- B) Divide by zero\nFinally block
- C) Finally block
- D) Compilation Error
- **Answer:** B) Divide by zero\nFinally block
### 18. Which of the following LINQ operators is used to filter elements based on a condition?
- A) 'Select'
- B) `Where`
- C) `GroupBy`
- D) `OrderBy`
```

```
- **Answer:** B) `Where`
### 19. What will be the output of the following C# code?
```csharp
int[] numbers = { 1, 2, 3, 4, 5 };
var query = from num in numbers where num > 3 select num;
Console.WriteLine(query.Count());
- A) 2
- B) 3
- C) 4
- D) 5
- **Answer:** A) 2
20. Which of the following is correct about the 'ref' keyword in C#?
- A) The `ref` keyword is used to pass arguments by value.
- B) The `ref` keyword is used to pass arguments by reference.
- C) The `ref` keyword is used to declare constants.
- D) The 'ref' keyword is used to declare readonly fields.
- **Answer:** B) The `ref` keyword is used to pass arguments by reference.
21. What will be the output of the following C# code?
```csharp
int x = 5;
int y = 10;
int z = x > y ? x : y;
Console.WriteLine(z);
...
- A) 5
- B) 10
- C) 15
- D) Compilation Error
```

```
- **Answer:** B) 10
### 22. Which of the following correctly describes the 'params' keyword in C#?
- A) The `params` keyword allows a method to accept a variable number of arguments.
- B) The `params` keyword allows a method to return multiple values.
- C) The 'params' keyword can be used on any data type.
- D) The `params` keyword is used to declare constant parameters.
- **Answer:** A) The `params` keyword allows a method to accept a variable number of arguments.
### 23. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4 };
Array.Reverse(arr);
Console.WriteLine(arr[0]);
- A) 1
- B) 2
- C) 3
- D) 4
- **Answer:** D) 4
24. Which of the following statements about C# 'struct' is correct?
- A) 'struct' is a reference type.
- B) 'struct' cannot have methods.
- C) `struct` can inherit from another class.
- D) `struct` is a value type.
- **Answer:** D) `struct` is a value type.
25. What will be the output of the following C# code?
```csharp
string s = "Hello, World!";
```

```
s = s.ToLower();
Console.WriteLine(s);
- A) hello, world!
- B) Hello, World!
- C) HELLO, WORLD!
- D) Compilation Error
- **Answer:** A) hello, world!
### 26. Which of the following methods is used to compare two strings in C#?
- A) `String.Compare()`
- B) `String.Equals()`
- C) `String.Match()`
- D) `String.Check()`
- **Answer:** A) `String.Compare()`
### 27. What will be the output of the following C# code?
```csharp
int a = 10;
int b = 20;
a += b;
Console.WriteLine(a);
- A) 10
- B) 20
- C) 30
- D) 40
- **Answer:** C) 30
28. Which of the following statements about C# `enum` is correct?
```

- A) `enum` can only have integer values.

```
- B) `enum` is a reference type.
- C) 'enum' values must be unique.
- D) 'enum' can have methods.
- **Answer:** A) `enum` can only have integer values.
29. What will be the output of the following C# code?
```csharp
int[] numbers = { 1, 2, 3, 4, 5 };
var result = numbers.FirstOrDefault(n \Rightarrow n > 3);
Console.WriteLine(result);
...
- A) 1
- B) 3
- C) 4
- D) 5
- **Answer:** C) 4
### 30. Which of the following is correct about the 'async' keyword in C#?
- A) The `async` keyword makes a method run on a separate thread.
- B) The `async` keyword makes a method asynchronous but doesn't change how it's called.
- C) The 'async' keyword allows a method to return multiple values.
- D) The 'async' keyword is used to declare a method that returns void.
- **Answer:** B) The `async` keyword makes a method asynchronous but doesn't change how it's
called.
### 31. What will be the output of the following C# code?
```csharp
string str1 = "hello";
string str2 = "HELLO";
bool result = str1.Equals(str2, StringComparison.OrdinalIgnoreCase);
Console.WriteLine(result);
```

```
- A) True
- B) False
- C) Compilation Error
- D) Runtime Error
- **Answer:** A) True
32. Which of the following statements about the 'static' keyword in C# is true?
- A) A `static` class can be instantiated.
- B) `static` methods can access non-static members of a class.
- C) 'static' fields are shared among all instances of a class.
- D) `static` constructors are called automatically before any static members are accessed.
- **Answer:** D) `static` constructors are called automatically before any static members are
accessed.
33. What will be the output of the following C# code?
```csharp
int x = 10;
int y = 20;
if (x == y)
{
  Console.WriteLine("Equal");
}
else if (x > y)
{
  Console.WriteLine("x is greater");
}
else
{
  Console.WriteLine("y is greater");
}
```

```
- A) Equal
- B) x is greater
- C) y is greater
- D) Compilation Error
- **Answer:** C) y is greater
### 34. Which of the following is true about indexers in C#?
- A) Indexers can be overloaded.
- B) Indexers must have a return type of `int`.
- C) Indexers cannot be defined in interfaces.
- D) Indexers cannot have access modifiers.
- **Answer:** A) Indexers can be overloaded.
### 35. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4, 5 };
int sum = 0;
foreach (int num in arr)
 if (num % 2 == 0)
 continue;
 sum += num;
}
Console.WriteLine(sum);
- A) 6
- B) 9
- C) 12
- D) 15
- **Answer:** B) 9
```

```
36. Which of the following correctly describes the `sealed` keyword in C#?
- A) The 'sealed' keyword prevents a class from being inherited.
- B) The 'sealed' keyword allows a class to be partially inherited.
- C) The `sealed` keyword is used to declare a class as abstract.
- D) The `sealed` keyword prevents a method from being overridden.
- **Answer:** A) The `sealed` keyword prevents a class from being inherited.
37. What will be the output of the following C# code?
```csharp
int a = 5;
int b = 10;
a = b++;
Console.WriteLine(a);
- A) 5
- B) 10
- C) 11
- D) Compilation Error
- **Answer:** B) 10
### 38. Which of the following statements about events in C# is correct?
- A) Events can only be raised from within the class where they are declared.
- B) Events can be used without a delegate.
- C) Events cannot be multicast.
- D) Events cannot be unsubscribed once subscribed.
- **Answer: ** A) Events can only be raised from within the class where they are declared.
### 39. What will be the output of the following C# code?
```csharp
int[] numbers = { 1, 2, 3, 4, 5 };
var result = numbers.Skip(2).Take(2);
```

```
Console.WriteLine(result.First());
- A) 1
- B) 2
- C) 3
- D) 4
- **Answer:** C) 3
40. Which of the following correctly describes the use of the `new` keyword in C#?
- A) The 'new' keyword can only be used to create instances of value types.
- B) The 'new' keyword is used to hide a base class member.
- C) The 'new' keyword is used to make methods abstract.
- D) The `new` keyword is used to make methods virtual.
- **Answer:** B) The `new` keyword is used to hide a base class member.
41. What will be the output of the following C# code?
```csharp
int x = 10;
int y = 20;
Swap(ref x, ref y);
Console.WriteLine(\$"x = \{x\}, y = \{y\}");
void Swap(ref int a, ref int b)
{
  int temp = a;
  a = b;
  b = temp;
}
- A) x = 10, y = 20
- B) x = 20, y = 10
- C) x = 0, y = 0
```

```
- D) Compilation Error
-**Answer:**B) x = 20, y = 10
### 42. Which of the following statements about the `abstract` keyword in C# is correct?
- A) Abstract methods can have a body.
- B) Abstract classes can be instantiated.
- C) Abstract methods must be implemented in derived classes.
- D) Abstract classes cannot have constructors.
- **Answer:** C) Abstract methods must be implemented in derived classes.
### 43. What will be the output of the following C# code?
```csharp
string s = "hello";
s = s.Replace('l', 'w');
Console.WriteLine(s);
- A) hewwo
- B) hewwwo
- C) hellow
- D) Compilation Error
- **Answer:** A) hewwo
44. Which of the following correctly describes a 'partial' class in C#?
- A) A 'partial' class allows methods to be overloaded.
- B) A 'partial' class can be defined across multiple files.
- C) A 'partial' class can only be defined in the same namespace.
- D) A `partial` class can have multiple constructors.
- **Answer:** B) A `partial` class can be defined across multiple files.
45. What will be the output of the following C# code?
```

```csharp

```
int[] arr = { 10, 20, 30, 40 };
Array.Resize(ref arr, 6);
Console.WriteLine(arr.Length);
- A) 4
- B) 5
- C) 6
- D) Compilation Error
- **Answer:** C) 6
### 46. Which of the following statements about the `finally` block in C# is true?
- A) The `finally` block is executed only if an exception occurs.
- B) The `finally` block is executed regardless of whether an exception occurs or not.
- C) The `finally` block must be present in a `try-catch` structure.
- D) The `finally` block can return a value to the calling method.
- **Answer:** B) The `finally` block is executed regardless of whether an exception occurs or not.
### 47. What will be the output of the following C# code?
```csharp
double d = 10.5;
int i = (int)d;
Console.WriteLine(i);
- A) 10
- B) 11
- C) 10.5
- D) Compilation Error
- **Answer:** A) 10
48. Which of the following statements about C# properties is correct?
```

- A) Properties can have different access modifiers for the get and set accessors.

- B) Properties can only have a get accessor.
- C) Properties are always virtual.
- D) Properties cannot be abstract.

Console.WriteLine(x);

```
- **Answer:** A) Properties can have different access modifiers for the get and set accessors.
49. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4, 5 };
int result = arr.Aggregate((a, b) => a + b);
Console.WriteLine(result);
...
- A) 15
- B) 10
- C) 5
- D) Compilation Error
- **Answer:** A) 15
### 50. Which of the following statements about 'out' parameters in C# is correct?
- A) 'out' parameters must be initialized before being passed to a method.
- B) A method using 'out' parameters must return a value.
- C) `out` parameters can only be used with reference types.
- D) 'out' parameters must be assigned a value within the method.
- **Answer:** D) `out` parameters must be assigned a value within the method.
### 51. What will be the output of the following C# code?
```csharp
int x = 0;
for (int i = 0; i < 5; i++)
 x += i;
```

```
...
- A) 10
- B) 15
- C) 20
- D) 5
- **Answer:** A) 10
52. Which of the following statements about the `is` keyword in C# is correct?
- A) The 'is' keyword is used to cast objects to a different type.
- B) The `is` keyword is used to check if an object is of a specific type.
- C) The `is` keyword is used to compare strings.
- D) The `is` keyword can only be used with reference types.
- **Answer:** B) The `is` keyword is used to check if an object is of a specific type.
53. What will be the output of the following C# code?
```csharp
int a = 5;
int b = 10;
int c = a + b * 2;
Console.WriteLine(c);
- A) 30
- B) 25
- C) 20
- D) 15
- **Answer:** C) 25
```

54. Which of the following correctly describes the `default` keyword in C#?

- A) The `default` keyword is used to specify a default value for method parameters.
- B) The 'default' keyword is used to declare default constructors.
- C) The `default` keyword is used to provide a default case in a switch statement.

```
- D) The `default` keyword is used to handle null values.
- **Answer:** C) The `default` keyword is used to provide a default case in a switch statement.
### 55. What will be the output of the following C# code?
```csharp
int x = 5;
int y = 3;
int z = x \& y;
Console.WriteLine(z);
...
- A) 1
- B) 3
- C) 5
- D) 7
- **Answer:** A) 1
56. Which of the following is true about generic types in C#?
- A) Generic types can only be used with reference types.
- B) Generic methods can have multiple type parameters.
- C) Generics provide runtime type safety.
- D) Generic types cannot have constraints.
- **Answer:** B) Generic methods can have multiple type parameters.
57. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4, 5 };
int result = arr.Max();
```

Console.WriteLine(result);

...

- A) 1

- B) 3

```
- C) 5
- D) 4
- **Answer:** C) 5
### 58. Which of the following correctly describes the 'lock' keyword in C#?
- A) The `lock` keyword is used to prevent multiple threads from executing a block of code
simultaneously.
- B) The 'lock' keyword is used to protect access to an entire class.
- C) The `lock` keyword is used to restrict access to methods only.
- D) The `lock` keyword is used to declare thread-safe variables.
- **Answer:** A) The `lock` keyword is used to prevent multiple threads from executing a block of
code simultaneously.
### 59. What will be the output of the following C# code?
```csharp
int a = 1;
int b = a << 2;
Console.WriteLine(b);
- A) 2
- B) 4
- C) 1
- D) 8
- **Answer:** B) 4
60. Which of the following statements about 'foreach' loop in C# is correct?
- A) 'foreach' loop can only be used with arrays.
- B) 'foreach' loop can modify the collection it iterates over.
```

- C) `foreach` loop automatically handles the index of the collection.

- \*\*Answer:\*\* C) `foreach` loop automatically handles the index of the collection.

- D) `foreach` loop must be manually terminated.

```
61. What will be the output of the following C# code?
```csharp
int x = 5;
int y = 10;
x += y -= x;
Console.WriteLine(x);
- A) 0
- B) 5
- C) 10
- D) 15
- **Answer:** D) 15
### 62. Which of the following statements about 'try-catch' blocks in C# is correct?
- A) A 'try' block must be followed by at least one 'catch' block.
- B) A 'try' block can be followed by multiple 'finally' blocks.
- C) A 'try' block must be followed by both 'catch' and 'finally' blocks.
- D) A 'try' block can be followed by a 'finally' block without a 'catch' block.
- **Answer:** D) A `try` block can be followed by a `finally` block without a `catch` block.
### 63. What will be the output of the following C# code?
```csharp
string str = "123";
int result;
bool success = int.TryParse(str, out result);
Console.WriteLine(success);
- A) True
- B) False
- C) Compilation Error
- D) Runtime Error
```

```
- **Answer:** A) True
64. Which of the following correctly describes the 'this' keyword in C#?
- A) The `this` keyword can be used to reference the current instance of a class.
- B) The 'this' keyword can be used to reference a static method of a class.
- C) The `this` keyword can be used to declare variables.
- D) The `this` keyword can be used to return the current method.
- **Answer: ** A) The `this` keyword can be used to reference the current instance of a class.
65. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4, 5 };
int result = arr.Count(x => x \% 2 == 0);
Console.WriteLine(result);
...
- A) 1
- B) 2
- C) 3
- D) 4
- **Answer:** B) 2
### 66. Which of the following statements about extension methods in C# is correct?
- A) Extension methods can only be defined in the class they extend.
- B) Extension methods cannot access private members of the class they extend.
- C) Extension methods must be static methods.
- D) Extension methods cannot have parameters.
- **Answer:** B) Extension methods cannot access private members of the class they extend.
### 67. What will be the output of the following C# code?
```

```csharp

int x = 0;

```
do
{
 χ++;
\} while (x < 5);
Console.WriteLine(x);
- A) 4
- B) 5
- C) 6
- D) Compilation Error
- **Answer:** B) 5
68. Which of the following correctly describes the `volatile` keyword in C#?
- A) The `volatile` keyword is used to declare constants.
- B) The 'volatile' keyword ensures that a variable is not cached by the CPU.
- C) The 'volatile' keyword is used to declare variables that can change type at runtime.
- D) The 'volatile' keyword is used to make variables read-only.
- **Answer:** B) The 'volatile' keyword ensures that a variable is not cached by the CPU.
69. What will be the output of the following C# code?
```csharp
string s1 = "hello";
string s2 = s1;
s1 = "world";
Console.WriteLine(s2);
- A) hello
- B) world
- C) helloworld
- D) Compilation Error
- **Answer:** A) hello
```

```
- A) A 'Task' cannot return a value.
- B) A 'Task' represents an operation that runs asynchronously.
- C) A 'Task' can only be created using the 'new' keyword.
- D) A 'Task' must always be awaited.
- **Answer:** B) A `Task` represents an operation that runs asynchronously.
### 71. What will be the output of the following C# code?
```csharp
int[] arr = { 2, 4, 6, 8, 10 };
int sum = 0;
for (int i = 0; i < arr.Length; i += 2)
 sum += arr[i];
Console.WriteLine(sum);
- A) 20
- B) 18
- C) 16
- D) 30
- **Answer:** B) 18
72. Which of the following statements about C# `interface` is correct?
- A) An `interface` can contain fields.
- B) An 'interface' can implement methods.
- C) A class can inherit from multiple interfaces.
- D) An 'interface' cannot be used as a data type.
```

- \*\*Answer:\*\* C) A class can inherit from multiple interfaces.

### 70. Which of the following statements about `Task` in C# is correct?

```
73. What will be the output of the following C# code?
```csharp
string[] names = { "John", "Paul", "George", "Ringo" };
var result = names.First(name => name.StartsWith("G"));
Console.WriteLine(result);
- A) John
- B) Paul
- C) George
- D) Ringo
- **Answer:** C) George
### 74. Which of the following correctly describes the `internal` keyword in C#?
- A) The 'internal' keyword allows access only within the same assembly.
- B) The 'internal' keyword allows access only within the same class.
- C) The 'internal' keyword allows access only within the same namespace.
- D) The 'internal' keyword allows access from any assembly.
- **Answer: ** A) The `internal` keyword allows access only within the same assembly.
### 75. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4, 5 };
var result = arr.Select(x => x * 2).ToArray();
Console.WriteLine(result[3]);
- A) 4
- B) 6
- C) 8
- D) 10
- **Answer:** C) 8
```

### 76. Which of the following statements about 'switch' statements in C# is correct? - A) A 'switch' statement can only be used with integer types. - B) A 'switch' statement requires a 'default' case. - C) A 'switch' statement can have multiple 'case' labels with the same value. - D) A 'switch' statement can be used with string values. - \*\*Answer:\*\* D) A `switch` statement can be used with string values. ### 77. What will be the output of the following C# code? ```csharp int x = 5; int y = 0; try { int z = x / y; catch (DivideByZeroException) Console.WriteLine("Divide by zero"); } finally Console.WriteLine("End of try-catch"); } - A) Divide by zero

- B) Divide by zero\nEnd of try-catch
- C) End of try-catch
- D) Compilation Error
- \*\*Answer:\*\* B) Divide by zero\nEnd of try-catch

- A) `readonly` fields can only be assigned a value at the time of declaration.
- B) 'readonly' fields can be modified in a method.
- C) `readonly` fields can be initialized either at the declaration or in a constructor.
- D) 'readonly' fields must be initialized before they are used.
- \*\*Answer:\*\* C) `readonly` fields can be initialized either at the declaration or in a constructor.

```
79. What will be the output of the following C# code?
```csharp
int a = 1;
int b = 2;
int c = 3;
int result = (a + b) * c;
Console.WriteLine(result);
- A) 5
- B) 6
- C) 9
- D) 12
- **Answer:** D) 12
### 80. Which of the following statements about method overloading in C# is correct?
- A) Methods can be overloaded based on the return type alone.
- B) Methods can be overloaded by changing the number of parameters.
- C) Methods cannot be overloaded in C#.
- D) Methods can only be overloaded if they have the same number of parameters.
```

- **Answer:** B) Methods can be overloaded by changing the number of parameters.

81. What will be the output of the following C# code?

var result = numbers.Where(n => n > 5).Sum();

```csharp

 $int[] numbers = { 2, 4, 6, 8 };$ 

Console.WriteLine(result);

```
- A) 6
- B) 8
- C) 18
- D) 20
- **Answer:** C) 18
82. Which of the following statements about inheritance in C# is correct?
- A) C# supports multiple inheritance.
- B) A class can inherit from multiple base classes.
- C) A derived class can override a method from the base class.
- D) A derived class cannot have additional members that the base class does not have.
- **Answer:** C) A derived class can override a method from the base class.
83. What will be the output of the following C# code?
```csharp
int x = 5;
x = x << 2;
Console.WriteLine(x);
- A) 10
- B) 15
- C) 20
- D) 25
- **Answer:** C) 20
### 84. Which of the following correctly describes the `new` modifier in C#?
```

- A) The `new` modifier is used to create a new instance of a class.
- B) The `new` modifier is used to hide a base class member in a derived class.
- C) The `new` modifier is used to declare a variable.

...

- D) The `new` modifier is used to declare a constant.

```
- **Answer:** B) The `new` modifier is used to hide a base class member in a derived class.
### 85. What will be the output of the following C# code?
```csharp
int[] arr = { 3, 5, 7 };
int result = arr.Aggregate((a, b) => a * b);
Console.WriteLine(result);
...
- A) 15
- B) 21
- C) 105
- D) 35
- **Answer:** C) 105
86. Which of the following statements about delegates in C# is correct?
- A) Delegates are value types.
- B) Delegates can point to multiple methods.
- C) Delegates cannot be used with anonymous methods.
- D) Delegates must have the 'virtual' keyword.
- **Answer:** B) Delegates can point to multiple methods.
87. What will be the output of the following C# code?
```csharp
string str = "abc";
char ch = str[1];
Console.WriteLine(ch);
- A) a
- B) b
- C) c
- D) Compilation Error
```

```
- **Answer:** B) b
### 88. Which of the following is true about the 'sealed' keyword in C#?
- A) The 'sealed' keyword can only be applied to methods.
- B) The 'sealed' keyword prevents a class from being inherited.
- C) The `sealed` keyword allows a method to be overridden.
- D) The 'sealed' keyword can be applied to fields.
- **Answer:** B) The `sealed` keyword prevents a class from being inherited.
### 89. What will be the output of the following C# code?
```csharp
double a = 5.5;
double b = Math.Floor(a);
Console.WriteLine(b);
- A) 5.5
- B) 6.0
- C) 5.0
- D) Compilation Error
- **Answer: ** C) 5.0
90. Which of the following statements about C# events is correct?
- A) Events cannot be used with delegates.
- B) Events can only be used with value types.
- C) Events are a way for a class to provide notifications.
- D) Events cannot have access modifiers.
- **Answer: ** C) Events are a way for a class to provide notifications.
91. What will be the output of the following C# code?
```csharp
int a = 5;
int b = 3;
```

```
int c = a \% b;
Console.WriteLine(c);
- A) 1
- B) 2
- C) 3
- D) 5
- **Answer:** A) 2
### 92. Which of the following statements about the 'base' keyword in C# is correct?
- A) The `base` keyword is used to call a method from a derived class.
- B) The 'base' keyword is used to call a method from the current class.
- C) The 'base' keyword is used to access members of the base class from a derived class.
- D) The 'base' keyword is used to create an instance of the base class.
- **Answer:** C) The 'base' keyword is used to access members of the base class from a derived
class.
### 93. What will be the output of the following C# code?
```csharp
int[] numbers = { 2, 4, 6, 8 };
int max = numbers.Max();
Console.WriteLine(max);
- A) 2
- B) 4
- C) 6
- D) 8
- **Answer:** D) 8
94. Which of the following statements about the `params` keyword in C# is correct?
```

- A) The `params` keyword can only be used with value types.

- B) The `params` keyword allows a method to accept a variable number of arguments.
- C) The `params` keyword can only be used with reference types.
- D) The `params` keyword is used to return multiple values from a method.
- \*\*Answer:\*\* B) The `params` keyword allows a method to accept a variable number of arguments.

```
95. What will be the output of the following C# code?
```csharp
string str = "abcdef";
string substr = str.Substring(1, 3);
Console.WriteLine(substr);
- A) abc
- B) bcd
- C) cde
- D) def
- **Answer:** B) bcd
### 96. Which of the following statements about the 'typeof' operator in C# is correct?
- A) The `typeof` operator returns the name of the type as a string.
- B) The 'typeof' operator returns the size of the type in bytes.
- C) The 'typeof' operator returns the metadata information for a type.
- D) The 'typeof' operator can only be used with reference types.
- **Answer: ** C) The `typeof` operator returns the metadata information for a type.
### 97. What will be the output of the following C# code?
```csharp
int[] arr = { 1, 2, 3, 4, 5 };
int result = arr.FirstOrDefault(x => x > 3);
Console.WriteLine(result);
- A) 1
```

```
- B) 2
- C) 3
- D) 4
- **Answer:** D) 4
98. Which of the following statements about C# strings is correct?
- A) Strings are mutable in C#.
- B) Strings are value types in C#.
- C) Strings are reference types in C#.
- D) Strings can be modified using the `Insert` method.
- **Answer:** C) Strings are reference types in C#.
99. What will be the output of the following C# code?
```csharp
int x = 10;
int y = 20;
bool result = x == y \mid \mid x < y;
Console.WriteLine(result);
- A) True
- B) False
- C) 10
- D) 20
- **Answer:** A) True
```

100. Which of the following statements about C# `foreach` loop is correct?

- A) The `foreach` loop can modify the collection it iterates over.
- B) The `foreach` loop automatically handles the index of the collection.
- C) The `foreach` loop must have an index variable.
- D) The `foreach` loop can only be used with arrays.
- **Answer:** B) The `foreach` loop automatically handles the index of the collection.