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Mcq Answers for C#

Which of the following are true regarding the System.Collections.Generic.HashSet class?
(/Question/42/which-of-the-following-are-true-regarding-the-system-dot-collections-dot-generic-dot-hashset-t-class)

HashSet is an unordered collection.

The default EqualityComparer checks whether the element supplied to the HashSet is unique or not.

HashSet provides functionality for "conceptual sets" where the rules for membership can be specified without actually creating all of the items.

All of the above

Answer: Answer is d

Further Reading: A HashSet collection is not sorted and cannot contain duplicate elements. Useful resources, HashSet collection (<http://msdn.microsoft.com/en-us/library/bb397727.aspx>), HashSet (<http://msdn.microsoft.com/en-us/library/bb359438.aspx>)



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class&picture=http://www.read4learn.com/content/images/search-logo.jpg&name=Which of the following are true regarding the System.Collections.Generic.HashSet <T> class?&description=a) HashSet is an unordered collection. b) The default EqualityComparer checks whether the element supplied to the HashSet is unique or not. c) HashSet provides functionality for "conceptual sets" where the rules for membership can be specified without actually creating all of the items. d) All of the above Answer: Answer is d. Further Reading: A HashSet collection is not sorted and cannot contain duplicate elements. Useful resources, HashSet collection, HashSet &redirect_uri=http://read4learn.com/question/42/which-of-the-following-are-true-regarding-the-system-dot-collections-dot-generic-dot-hashset-t-class&display=popup)



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1 Comment (/Question/42/which-of-the-following-are-true-regarding-the-system-dot-collections-dot-generic-dot-hashset-t-class#disqus_thread)

With which class is the task of mapping a specific point in time into units, such as weeks, months, and years accomplished? (/Question/43/with-which-class-is-the-task-of-mapping-a-specific-point-in-time-into-units-such-as-weeks-months-and-years-accomplished)

System.DateTime

System.TimeSpan

System.Globalization.Calendar

System.Globalization.CultureInfo

Answer: Answer is c

Further Reading: A calendar divides time into units, such as weeks, months, and years. The number, length, and start of the divisions vary in each calendar. Useful resources, Calendar class (http://msdn.microsoft.com/en-us/library/system.globalization.calendar.aspx)



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Useful resources, Calendar class &redirect_uri=http://read4learn.com/question/43/with-which-class-is-the-task-of-mapping-a-specific-point-in-time-into-units-such-as-weeks-months-and-years-accomplished&display=popup)



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Which of the following are true about Nullable types? (/Question/48/which-of-the-following-are-true-about-nullable-types)

A Nullable type is a reference type.

An implicit conversion exists from any non-nullable value type to a nullable form of that type.

A predefined conversion from the nullable type S? to the nullable type T? exists if there is a predefined conversion from the non-nullable type S to the non-nullable type T

Answer: Answer is b, c

Further Reading: Useful resources, Nullable Types (http://msdn.microsoft.com/en-us/library/1t3y8s4s%28v=vs.80%29.aspx)



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type T Answer: Answer is b, c. Further Reading: Useful resources, Nullable

Types&source=http://read4learn.com/question/48/which-of-the-following-are-true-about-nullable-types)



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Which of the following is false about System.GC under version 3.5 of the .NET Framework? (/Question/51/which-of-the-following-is-false-about-system-dot-gc-under-version-3-dot-5-of-the-dot-net-framework)

- a. You can request that the garbage collector processes a generation if it determines that it is appropriate at specific points in your code
- b. You can control the intrusiveness of the garbage collector (how often it performs collections) while your program is running
- c. You can control the intrusiveness of the garbage collector (how often it performs collections) only during application initialization
- d. You should specify LowLatency when using Concurrent Server Garbage Collection to improve memory utilization

Answer: Answer is c

Further Reading: Useful resources, GC Class (<http://msdn.microsoft.com/en-us/library/system.gc.aspx>), Latency Modes (<http://msdn.microsoft.com/en-us/library/bb384202.aspx>)



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framework&picture=http://www.read4learn.com/content/images/search-logo.jpg&name=Which of the following is false about System.GC under version 3.5 of the .NET Framework?&description=a) You can request that the garbage collector processes a generation if it determines that it is appropriate at specific points in your code b) You can control the intrusiveness of the garbage collector (how often it performs collections) while your program is running c) You can control the intrusiveness of the garbage collector (how often it performs collections) only during application initialization d) You should specify LowLatency when using Concurrent Server Garbage Collection to improve memory utilization Answer: Answer is c.


Further Reading: Useful resources, GC Class, Latency Modes


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When using an automatic property, which of the following statements is true?

(/Question/55/when-using-an-automatic-property-which-of-the-following-statements-is-true)

The compiler generates a backing field that is completely inaccessible from the application code.

b.

The compiler generates a backing field that is accessible via reflection.


The compiler generates a code that will store the information separately from the instance to ensure its security.

Answer: Answer is a

Further Reading: In general, you can't access. But there might be different stories. According to the accepted answer of [Is it possible to access backing fields behind auto-implemented properties](http://stackoverflow.com/questions/8817070/is-it-possible-to-access-backing-fields-behind-auto-implemented-properties) (<http://stackoverflow.com/questions/8817070/is-it-possible-to-access-backing-fields-behind-auto-implemented-properties>), you can do it, but is not confirmed nor provided any reference. So, as of now, our answer is The compiler generates a backing field that is completely inaccessible from the application code. Useful resources, [Auto-Implemented Properties](http://msdn.microsoft.com/en-us/library/bb384054.aspx) (<http://msdn.microsoft.com/en-us/library/bb384054.aspx>)


 ([https://www.facebook.com/dialog/feed?](https://www.facebook.com/dialog/feed?app_id=498142106921148&link=http://read4learn.com/question/55/when-using-an-automatic-property-which-of-the-following-statements-is-true&picture=http://www.read4learn.com/content/images/search-logo.jpg&name=When using an automatic property, which of the following statements is true?&description=a) The compiler generates a backing field that is completely inaccessible from the application code. b) The compiler generates a backing field that is accessible via reflection. c) The compiler generates a code that will store the information separately from the instance to ensure its security. Answer: Answer is a. Further Reading: In general, you cant access. But there might be different stories. According to the accepted answer of Is it possible to access backing fields behind auto-implemented properties, you can do it, but is not confirmed nor provided any reference. So, as of now, our answer is The compiler generates a backing field that is completely inaccessible from the application code. Useful resources,Auto-Implemented Properties &redirect_uri=http://read4learn.com/question/55/when-using-an-automatic-property-which-of-the-following-statements-is-true&display=popup)


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behind auto-implemented properties, you can do it, but is not confirmed nor provided any reference. So, as of now, our answer is The compiler generates a backing field that is completely inaccessible from the application code. Useful resources, Auto-Implemented

Properties&source=http://read4learn.com/question/55/when-using-an-automatic-property-which-of-the-following-statements-is-true)

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 **0 Comments (/Question/55/when-using-an-automatic-property-which-of-the-following-statements-is-true#disqus_thread)**

To which of the following do automatic properties refer? (/Question/56/to-which-of-the-following-do-automatic-properties-refer)

You declare (explicitly or implicitly) the accessibility of the property and get and set assessors, but do not provide any implementation or backing field


You attribute a member field so that the compiler will generate get and set assessors

The compiler creates properties for your class based on class level attributes

They are properties which are automatically invoked as part of the object construction process


Answer: Answer is a

Further Reading: Useful resources, Auto-Implemented Properties (<http://msdn.microsoft.com/en-us/library/bb384054.aspx>)


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Answer: Answer is a. Further Reading: Useful resources, Auto-Implemented Properties


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 ([http://www.linkedin.com/shareArticle?mini=true&url=http://read4learn.com/question/56/to-which-of-the-following-do-automatic-properties-refer&title=To which of the following do automatic properties refer?&summary=a\) You declare \(explicitly or implicitly\) the accessibility of the property and get and set assessors, but do not provide any implementation or backing field b\) You attribute a member field so that the compiler will generate get and set assessors c\) The compiler creates properties for your class based on class level attributes d\) They are properties which are automatically invoked as part of the object construction process](http://www.linkedin.com/shareArticle?mini=true&url=http://read4learn.com/question/56/to-which-of-the-following-do-automatic-properties-refer&title=To%20which%20of%20the%20following%20do%20automatic%20properties%20refer?&summary=a%20You%20declare%20(explicitly%20or%20implicitly)%20the%20accessibility%20of%20the%20property%20and%20get%20and%20set%20assessors%2C%20but%20do%20not%20provide%20any%20implementation%20or%20backing%20field%20b)%20You%20attribute%20a%20member%20field%20so%20that%20the%20compiler%20will%20generate%20get%20and%20set%20assessors%20c)%20The%20compiler%20creates%20properties%20for%20your%20class%20based%20on%20class%20level%20attributes%20d)%20They%20are%20properties%20which%20are%20automatically%20invoked%20as%20part%20of%20the%20object%20construction%20process))

Answer: Answer is a. Further Reading: Useful resources, Auto-Implemented Properties&source=http://read4learn.com/question/56/to-which-of-the-following-do-automatic-properties-refer)

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Which of the following can be used to preserve application state information?

(/Question/57/which-of-the-following-can-be-used-to-preserve-application-state-information)

ApplicationState

SessionState

ViewState

All of the above

Answer: Answer is d

Further Reading: Useful resources, ASP.NET State Management (<http://msdn.microsoft.com/en-us/library/75x4ha6s%28v=vs.100%29.aspx>)



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app_id=498142106921148&link=http://read4learn.com/question/57/which-of-the-following-can-be-used-to-preserve-application-state-information&picture=http://www.read4learn.com/content/images/search-logo.jpg&name=Which of the following can be used to preserve application state information?

&description=a) ApplicationState b) SessionState c) ViewState d) All of the above Answer: Answer is d.

Further Reading: Useful resources, ASP.NET State Management

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Which of the following types guarantee atomic reads and writes? (/Question/59/which-of-the-following-types-guarantee-atomic-reads-and-writes)

int

double

long
float

Answer: Answer is a, d

Further Reading: Reads and writes of the following data types are atomic: bool, char, byte, sbyte, short, ushort, uint, int, float, and reference types. In addition, reads and writes of enum types with an underlying type in the previous list are also atomic. Reads and writes of other types, including long, ulong, double, and decimal, as well as user-defined types, are not guaranteed to be atomic. Useful resources, Atomicity of variable references (<http://msdn.microsoft.com/en-us/library/aa691278%28v=vs.71%29.aspx>)



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[app_id=498142106921148&link=http://read4learn.com/question/59/which-of-the-following-types-guarantee-atomic-reads-and-writes&picture=http://www.read4learn.com/content/images/search-logo.jpg&name=Which of the following types guarantee atomic reads and writes?&description=a\) int b\) double c\) long d\) float](https://www.facebook.com/dialog/feed?app_id=498142106921148&link=http://read4learn.com/question/59/which-of-the-following-types-guarantee-atomic-reads-and-writes&picture=http://www.read4learn.com/content/images/search-logo.jpg&name=Which of the following types guarantee atomic reads and writes?&description=a) int b) double c) long d) float) Answer: Answer is a, d. Further Reading: Reads and writes of the following data types are atomic: bool, char, byte, sbyte, short, ushort, uint, int, float, and reference types. In addition, reads and writes of enum types with an underlying type in the previous list are also atomic. Reads and writes of other types, including long, ulong, double, and decimal, as well as user-defined types, are not guaranteed to be atomic. Useful resources, Atomicity of variable references

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[following-types-guarantee-atomic-reads-and-writes&title=Which of the following types guarantee atomic reads and writes?&summary=a\) int b\) double c\) long d\) float](http://www.linkedin.com/shareArticle?mini=true&url=http://read4learn.com/question/59/which-of-the-following-types-guarantee-atomic-reads-and-writes&title=Which of the following types guarantee atomic reads and writes?&summary=a) int b) double c) long d) float) Answer: Answer is a, d. Further Reading: Reads and writes of the following data types are atomic: bool, char, byte, sbyte, short, ushort, uint, int, float, and reference types. In addition, reads and writes of enum types with an underlying type in the previous list are also atomic. Reads and writes of other types, including long, ulong, double, and decimal, as well as user-defined types, are not guaranteed to be atomic. Useful resources, Atomicity of variable references&source=http://read4learn.com/question/59/which-of-the-following-types-guarantee-atomic-reads-and-writes)



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Which of the following statements are applicable in LINQ to SQL? (/Question/60/which-of-the-following-statements-are-applicable-in-linq-to-sql)

It is pure Object Relational (O/R) model.

It is a set of enhancements to the DataSet and DataTable classes.


It requires the use of SQLServer as the database.


Because LINQ is based on Queries, it cannot be used to modify the data in the database.


Answer: Answer is a


Further Reading:

Useful resources, LINQ to SQL Object Model (<http://msdn.microsoft.com/en-us/library/bb386989.aspx>), Using LINQ to SQL (Part 1) (<http://weblogs.asp.net/scottgu/archive/2007/05/19/using-linq-to-sql-part-1.aspx>)

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Which of the following are required to be true by objects which are going to be used as keys in a System.Collections.HashTable? (/Question/62/which-of-the-following-are-required-to-be-true-by-objects-which-are-going-to-be-used-as-keys-in-a-system-dot-collections-dot-hashtable)

- a. They must handle case-sensitivity identically in both the GetHashCode() and Equals() methods.
- b. Key objects must be immutable for the duration they are used within a HashTable.
- c. GetHashCode() must be overridden to provide the same result, given the same parameters, regardless of reference equality unless the HashTable constructor is provided with an IEqualityComparer parameter.
- d. Each Element in a HashTable is stored as a Key/Value pair of the type System.Collections.DictionaryElement
- e. All of the above

Answer: Answer is e

Further Reading: Useful resources, Hashtable (<http://msdn.microsoft.com/en-us/library/system.collections hashtable.aspx>)

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