

Delegates, Events, and Collections in .NET

Computer Science · Answer Key · 10 Questions

1. What is a delegate in .NET?

- A) A static array type
- B) A class that encapsulates a method**
- C) A built-in event handler
- D) A database connection string

2. Which operator is used to register a method to an event?

- A) ==
- B) &&
- C) +=**
- D) ->

3. What is a generic delegate?

- A) A delegate bound to a specific class
- B) A delegate that only works with integers
- C) A delegate using a placeholder type**
- D) A delegate that cannot return values

4. What does LIFO stand for in the context of a Stack collection?

- A) Last-In, First-Out**
- B) Last-In, Final-Out
- C) List-In, First-Open
- D) Long-In, Fast-Out

5. Which collection type stores key/value pairs and is sorted automatically by key?

- A) ArrayList
- B) Queue
- C) SortedList**
- D) Stack

6. What namespace contains generic collections?

- A) System.Collections
- B) System.Collections.Generic**
- C) System.Generics
- D) System.Data

7. Which method is used to remove an item from a Queue?

- A) Pop
- B) Remove
- C) Dequeue**
- D) Delete

8. How does an interface differ from a delegate?

- A) Interfaces are faster to execute
- B) Delegates can implement multiple methods
- C) Interfaces can be implemented only once per class**
- D) Interfaces act as method references

9. What happens when you define custom event accessors?

- A) You can execute code before subscribing or unsubscribing**
- B) The event becomes static
- C) The event automatically becomes a delegate
- D) You disable the registration process

10. Which method is used to add an element to a Stack?

- A) Enqueue
- B) Add
- C) Push**
- D) Insert