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MSA, PMOC, PMP®, PRP®, PSE-ITP®, CS, ITIL, MCP®, MCSD



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Data Structures Level 2

Introduction to Collections In C#

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What are collections?

- Collections are data structures used to store and organize groups of related objects in memory.
- Collections are sophisticated ways to store and manage data in C#.
- They offer more flexibility and functionality compared to basic array types.
- They allow for dynamic memory allocation, meaning the size of the collection can grow or shrink as needed.

Why to use collections?

- Collections are used to store, retrieve, manipulate, and communicate aggregate data.
- They provide efficient ways to handle large amounts of data with built-in methods for common tasks.
- Collections provide efficient ways to manipulate and manage data, making programming tasks easier and more efficient.

Common operations on collections.

- Adding, removing, modifying, sorting, searching, and accessing elements.

Common Collection Types in C#

- List
- SortedList
- Dictionary
- Hashtable
- ArrayList
- HashSet
- Stack
- Queue
- LinkedList
- ObservableCollection
- ConcurrentDictionary
- BitArray



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Thank You

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