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### LEARN C# PROGRAMMING

programming language



### C# Basic Tutorial

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# C# - Stack Class

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It represents a last-in, first out collection of object. It is used when you need a last-in, first-out access of items. When you add an item in the list, it is called pushing the item and when you remove it, it is called popping the item.

# Methods and Properties of the Stack Class

The following table lists some commonly used properties of the Stack class

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Sr.No.	Property & Description
1	<b>Count</b> Gets the number of elements contained in the Stack.

The following table lists some of the commonly used  $\boldsymbol{methods}$  of the  $\boldsymbol{Stack}$  class –

Sr.No.	Method & Description	
1	<pre>public virtual void Clear(); Removes all elements from the Stack.</pre>	
2	<pre>public virtual bool Contains(object obj);</pre> <pre>Determines whether an element is in the Stack.</pre>	
3	<pre>public virtual object Peek(); Returns the object at the top of the Stack without removing it.</pre>	
4	<pre>public virtual object Pop(); Removes and returns the object at the top of the Stack.</pre>	
5	<pre>public virtual void Push(object obj);</pre> Inserts an object at the top of the Stack.	
6	<pre>public virtual object[] ToArray();</pre> Copies the Stack to a new array.	

## Example

st.Pop();

The following example demonstrates use of Stack -

```
st.Pop();
st.Pop();
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                                                 Console.WriteLine("Current stack: ");
foreach (char c in st) {
   Console.Write(c + " ");
}
  C# Useful Resources
                                          }
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© C# - Quick Guide

    C# - Useful Resources

                                        When the above code is compiled and executed, it produces the following
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                                        result -
 Selected Reading
                                        Current stack:
                                        WGMA
UPSC IAS Exams Notes
                                        The next poppable value in stack: H
                                        Current stack:
Developer's Best Practices
                                        HVWGMA
Questions and Answers
                                        Removing values
                                        Current stack:

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