Foreach Loop

This lesson discusses the foreach loop and its implementation in C#

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Introduction

The foreach statement is similar to the for statement in that both allow code to *iterate* over the *items* of collections, but the foreach *statement* lacks an *iteration* index, so it works even with collections that lack indices altogether.

Syntax

It is written in the following form:

```
foreach("variable declaration "in "enumerable-expression"){
   statements;
}
ForEach Syntax
```

Remarks

- The **enumerable-expression** is the *collection* on which the iteration will happen so it can be an **array** or a **list**
- The variable-declaration declares a variable that will be set to the successive elements of the enumerable-expression for each pass through the body
- The foreach loop exits when there are no more elements of the

enumerable-expression to assign to the variable of the variable-

declaration

Example

Let's take a look at an example implementing the foreach loop.



In the above code:

• the **foreach** statement *iterates* over the elements of the *string array* to write **"Alpha"**, **"Bravo"**, and **"Charlie"** to the *console*.

In the next lesson we'll discuss the **jump statements** in **C**#.