

Unreal Engine Framework - For Loops

- In programming, a for loop is used to iterate over a sequence of values
- Each iteration can execute a set of statements
- For loops are part of flow control (dictates the order of execution) methods
- Unreal Engine Blueprint's For Loop is used in the same way as in other programming languages
- Blueprints have four types of for loops
 - ForLoop
 - ForLoopWithBreak
 - ForEachLoop
 - ForEachLoopWithBreak

Unreal Engine Framework - ForLoop

- In a Blueprint, ForLoop has following input and output pins
 - Input
 - Execution pin
 - First Index
 - Last Index
 - Output
 - Loop Body - executes nodes attached to it on each iteration
 - Index - outputs current index of the loop
 - Completed - executes when for loop is completed

Unreal Engine Framework - ForLoopWithBreak

- In a Blueprint, ForLoopWithBreak works in the same way as ForLoop but a new pin, Break is added
- Break pin enables to “break” the loop with another execution flow
- ForLoop breaks are useful in order to prevent infinite or large loops, which can cause game freezing

Unreal Engine Framework - ForEachLoops

- ForEachLoop and ForEachLoopWith break works in the same way as their ForLoop counterparts with the difference that they can iterate over Arrays of different data types