Utilizing Advanced Statements



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Three Useful Operators

Null Conditional Null Coalescing Ternary Operator



int bigger = x > y ? x : y;

Ternary Operator

Shorthand if/else statement

Test and return first term if true, second if false



```
List < string > authors = null;
int? count = authors?.Count;
string message = count == null ?
"count is null" : "count is not null";
Console.WriteLine(message);
```

Null Conditional

Used with collections and classes

The operator is ?. (Question Mark, dot [period])



```
List<string> authors = null;
Int? howMany = authors?.Count ?? 0;
Console.WriteLine("Null coalescing. howMany = " + howMany);
authors = new List<string>() {
  "hello",
  "world"
howMany = authors?.Count ?? 0;
Console.WriteLine("Null coalescing. howMany = " + howMany);
```

Null Coalescing

Operator is written as two question marks (??)

"If the left hand operand is **NOT** null, return it. Otherwise, return the right hand operator."



Demo



Ternary

Null



Summary

```
Ternary Operator
  int bigger = x > y ? x : y;
Null Conditional
  authors?.Count
```

authors?.Count ?? O

Null Coalescing