

## #29 Evaluation of boolean expressions in If statements

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When writing boolean expressions for **If** statements it is necessary that all parts of the expression be valid expressions. This is because 4th Dimension will evaluate all parts of the expression before determining if it is **True** or **False**.

Valid:

```
CLEAR VARIABLE("MyVar")
MyVar:=6
BoolTest:=True
If((BoolTest) | (MyVar=8))
  ALERT("True")
else
  ALERT("False")
End if
```

Would display an alert box with the word "True" because both parts of the expression were evaluated and BoolTest evaluated as **True**. The 'OR' operator was used so only one of the two expression need be **True** for the test to pass.

Not Valid:

```
CLEAR VARIABLE("MyVar")
BoolTest:=True
If((BoolTest) | (MyVar=8))
  ALERT("True")
else
  ALERT("False")
End if
```

Would return an error because the variable MyVar is Undefined. BoolTest evaluated as **True** but 4th Dimension was unable to evaluate 'MyVar=8' because MyVar is Undefined.

