

# C4 Conditionals

## Conditional Operators

### Comparison operators

<u>Aa</u> Operators	<u>≡</u> Definitions	<u>≡</u> Examples
<u>==</u>	equal	a == b
<u>!=</u>	not equal	a != b
<u>&lt;</u>	less than	a < b
<u>&gt;</u>	greater than	a > b
<u>&lt;=</u>	less than or equal	a <= b
<u>&gt;=</u>	greater than or equal	a >= b

### Logical operators

<u>Aa</u> Operators	<u>≡</u> Definitions	<u>≡</u> Examples
<u>and</u>	true if both x and y	x and y
<u>or</u>	true if x or y	x or y
<u>not</u>	invert state	not x

### Identity operator

<u>Aa</u> Operators	<u>≡</u> Definitions	<u>≡</u> Example
<u>is</u>	true if the same object	x is y
<u>is not</u>	true if not the same object	x is not y

### Membership operator

<u>Aa</u> Operators	<u>≡</u> Definitions	<u>≡</u> Examples
<u>in</u>	true if x member of collection y	x in y
<u>not in</u>	true if x not member of collection y	x not in y