

The if-then-else inference rule.

$\{P\} D$

if (B) {

 C1

} else {

 C2

}

$\{Q\} D$

$\{ \text{true} \}$

$\{ \text{if } (x > y) \}$

$\text{max} = x;$

$\{ \text{else} \}$

$\text{max} = y;$

$\{$

$\{ ((x > y) \wedge (\text{max} = x)) \vee ((x \leq y) \wedge (\text{max} = y)) \}$

The if-then inference rule

$(P \supset D)$

$\neg(B) \quad \{$

C

$\}$

$(Q \supset D)$

Example of "if-then".

$\{ \text{true} \}$

if ($\text{max} < x$) {

$\text{max} = x$;

}

$\{ \text{max} \geq x \}$