

## Equivalence versus Equality

The semantics of  $\text{TLA}^+$  determine the value of  $F \equiv G$  only if  $F$  and  $G$  are Booleans. Writing  $F \equiv G$  therefore tells both the reader and a tool that  $F$  and  $G$  should be Booleans. TLC will report an error if checking the spec requires evaluating  $\equiv$  for non-Boolean arguments. You should therefore use  $\equiv$  rather than  $=$  for equality of Booleans.

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