Legend: State markers: Start Feedback Main user visible content and interface: Text, etc. Control: Text, etc. Navigational move: Text, etc. Correct move: Text, etc. Incorrect move: Text, etc. Branching/multiple acceptable Text, etc. solutions move:

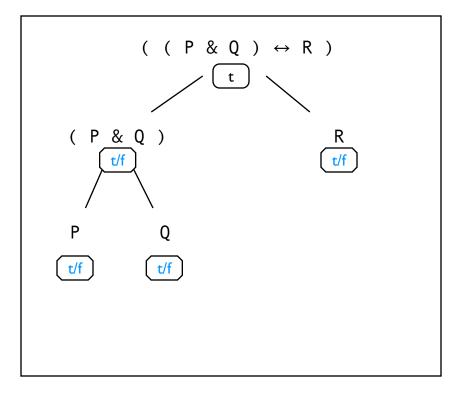
Feedback content:

Text, etc.

Items marked as

Find a truth-value assignment that makes the formula below true.

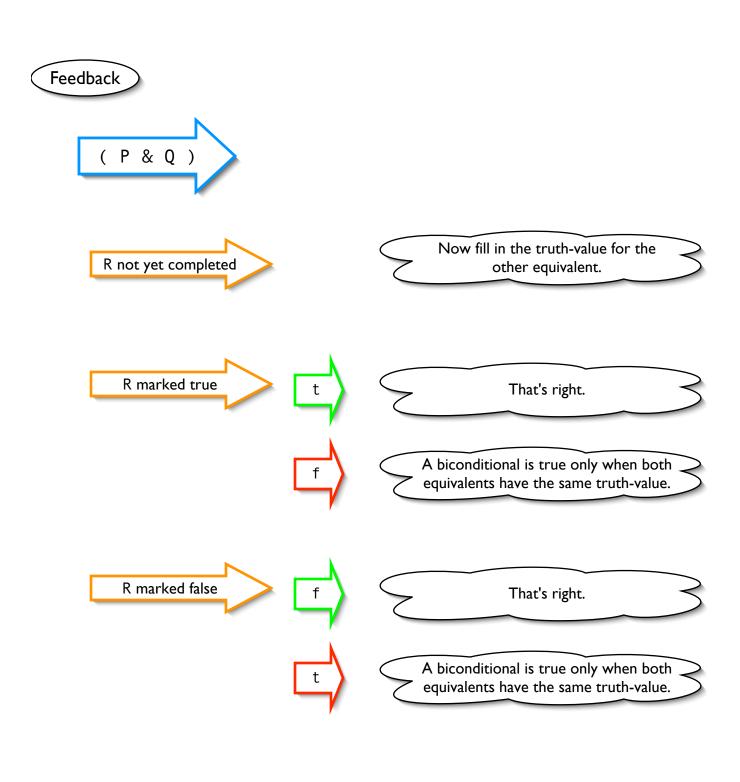
We've provided you with the completed parse tree for the formula. All you need to do is "chase truth down the tree", marking each node as either true or false. Once you've correctly marked each node, you're done.

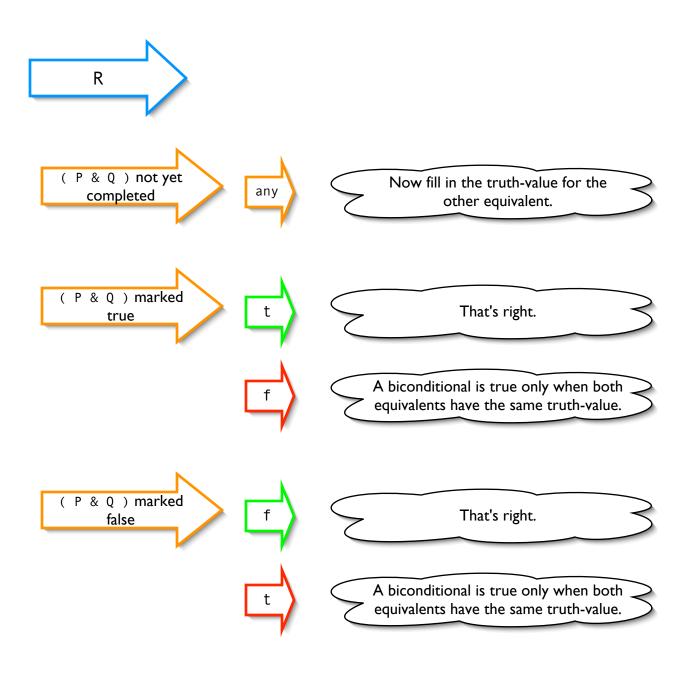


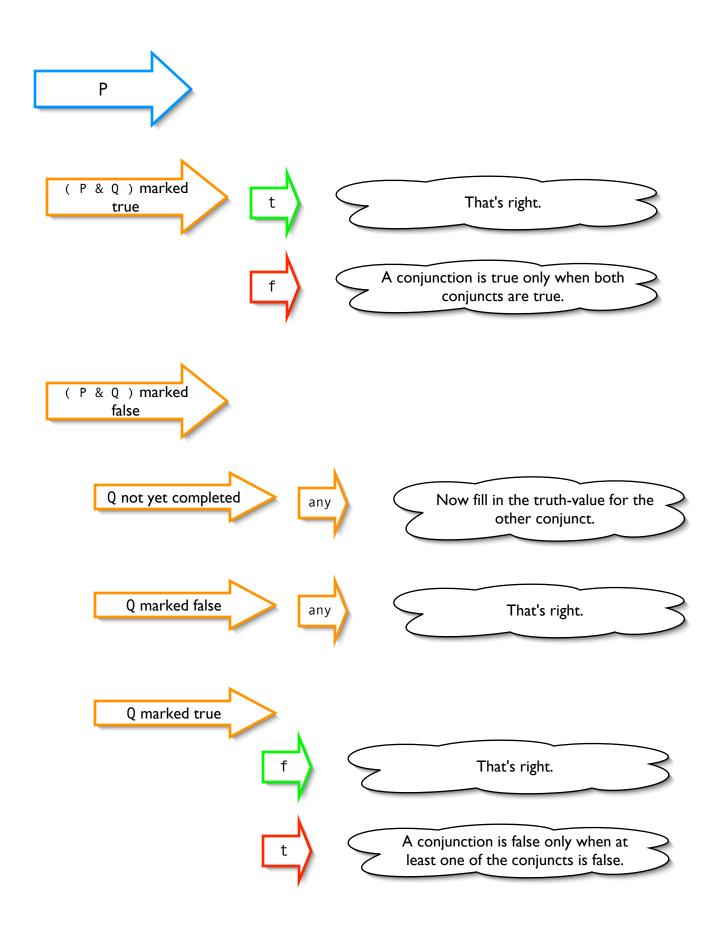
should not be included in the combobox itself.

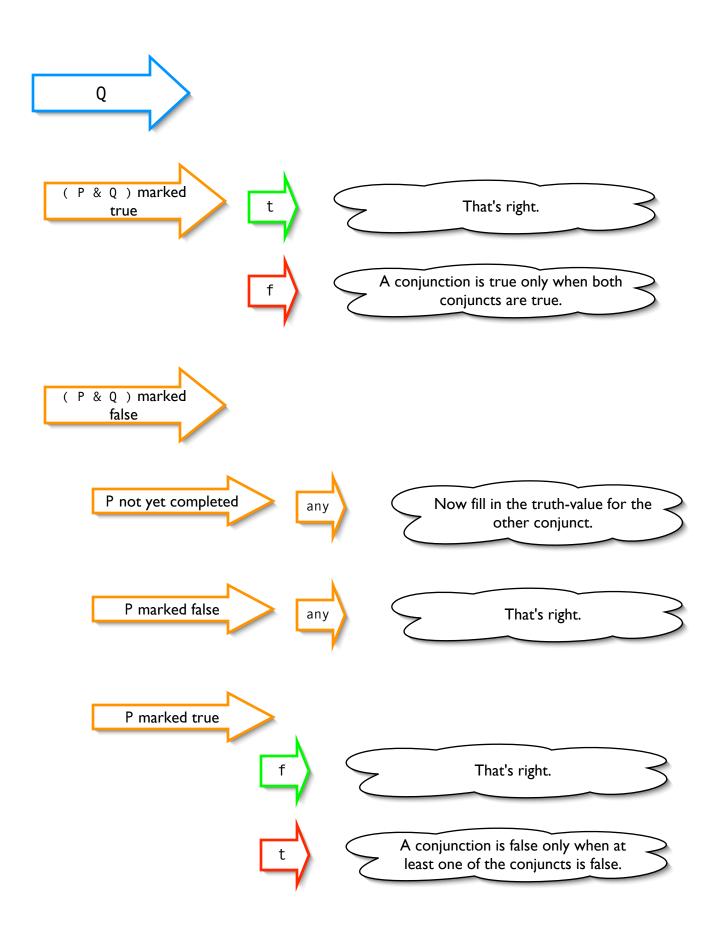
t/f are the comboboxes. The formulae should be visible even after the node has been classified a either true or false, so the formula at the node

Hint











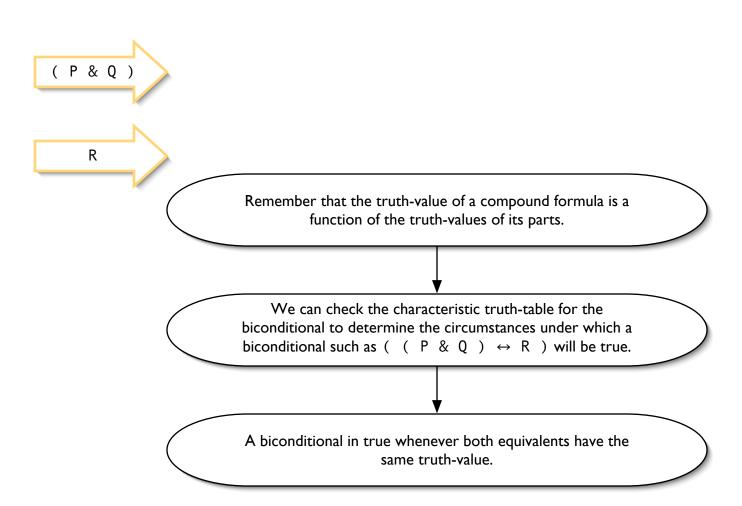
Each hint should contain the following at the bottom, after specific hint content:

Click here to view the characteristic truth-tables for the connectives.

The link should be to the following file:

temptruthvalueassignment2hint.gif

The hint to be displayed at a given stage is that for the first incomplete node, from top to bottom and left to right, i.e., the first in the following order not answered correctly when the hint is requested.



Remember that the truth-value of a compound formula is a function of the truth-values of its parts.

We can check the characteristic truth-table for conjunction to determine the circumstances under which a conjunction such as (P & Q) will have a given truth-value..

A conjunction is only true when both conjuncts are true, so if (P & Q) is marked true, both P and Q must be as well.

A conjunction is false, then, if either one or both of its conjuncts is false. If (P & Q) is marked false, at least one of P and Q must be marked false as well.

Solutions:

