

## Why number steps?

If we didn't name the two steps, then we wouldn't have to change the QED step's proof. Unnamed steps are automatically used by the backend provers. However, removing the names (labeling both steps by  $\langle 1 \rangle$ ) would cause the backend provers to use the irrelevant fact  $Divides(m, m)$  (asserted by the first step) in the proof of the second step. Giving the provers unnecessary facts makes it more difficult for them to find a proof. We therefore usually give steps names so they are used only when we want them to be.

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