

Inference at \* 1  
of proof for Lemma bool\_cases:

1.  $b : \mathbb{B}$   
 $\vdash (b = \text{tt}) \vee (b = \text{ff})$   
by BoolInd 1

1:

(no hyps)  
 $\vdash (\text{tt} = \text{tt}) \vee (\text{tt} = \text{ff})$

2:

(no hyps)  
 $\vdash (\text{ff} = \text{tt}) \vee (\text{ff} = \text{ff})$

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