Inference at $*$ 1
of proof for Lemma bool_cases:

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

1:

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

2:

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

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