

Inference at * 2 1
of proof for Lemma dec_iff_ex_bvfun:

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1. T : Type
2. E : T → T → ℙ
3. f : T → T → ℙ
4. ∀ x, y:T. (↑(f(x,y))) ⇔ (E(x,y))
5. x : T
6. y : T
⊢ Dec(E(x,y))
  by ((RWO "4<" 0)
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
      3:n)) (first_tok :t) inil_term)))

```

1:

⊢ Dec(↑(f(x,y)))

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