Inference at $*$ 2 2
 of proof for Lemma order_split:

1. T : Type
2. R : $T \to T \to \mathbb{P}$
3. $\forall a{:}T.\ R(a,a)$
4. $\forall a, b, c{:}T.\ R(a,b) \Rightarrow R(b,c) \Rightarrow R(a,c)$
5. $\forall x, y{:}T.\ R(x,y) \Rightarrow R(y,x) \Rightarrow (x = y)$
6. $\forall x, y{:}T.\ \mathrm{Dec}(x = y)$
7. a : T
8. b : T
9. $a = b$

$\vdash R(a,b)$

 by ((((Unfold ‘so_apply‘ 0)
 CollapseTHEN (RWH (HypC 9) 0))·)
 CollapseTHEN (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

  1:

   $\vdash R(b,b)$

  .