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

1. A : Type
2. B : Type
3. Q : $A \to B \to \mathbb{P}$
4. x:$A \to y$:$B \times Q(x,y)$
$\vdash \exists f$:$A \to B$. $(\forall x$:A. $Q(x,f(x)))$
 by ((((((With $\lambda z.(g(z))$.1 (D 0))
 CollapseTHENM (D 0))$\cdot$)
 CollapseTHENM (Reduce 0))$\cdot$)

 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
 )) (first_tok :t) inil_term)))$\cdot$

 1:

 5. x : A
 $\vdash Q(x,(g(x)).1)$
 .