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

1. A : Type
2. B : A→Type
3. Q : x:A→$B(x)$→Type
4. x:A→y:$B(x)$ × $Q(x,y)$
⊢∃f:x:A→$B(x)$. (∀x:A. $Q(x,f(x))$)
 by ((((((With $\lambda z.(g(z))$.1 (D 0))
 CollapseTHENM (D 0))·)
 CollapseTHENM (Reduce 0))·)

 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
 )) (first_tok :t) inil_term)))·

 1:

 5. x : A
 ⊢ $Q(x,(g(x)).1)$
 .