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

1. $P : \mathbb{N} \to \mathbb{P}\{\mathrm{k}\}$
2. $g : \forall i{:}\mathbb{N}.\ (\forall j{:}\mathbb{N} i.\ P(j)) \Rightarrow P(i)$
$\vdash (\lambda x.g(x,\mathrm{Y}(\lambda f,x.\ g(x,f)))) \in$!Void()→!Void()
 by ((MemCD)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
 )) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_93198_{complete_nat_ind_with_y}1_1_1_1.html