

can-apply-mu^{11,40}

$\forall A:\text{Type}, P:(A \rightarrow \mathbb{N} \rightarrow \mathbb{B}), d:(\forall x:A. \text{Dec}(\exists n:\mathbb{N}. (\uparrow(P(x,n))))), x:A.$
 $(\uparrow \text{can-apply}(\text{mu}'(P);x)) \iff (\exists n:\mathbb{N}. (\uparrow(P(x,n))))$

ProofTree