```
wop  THM

⊢  ∀P:(ℕ→𝔹). (∃n:ℕ. P(n)) ⇒ (∃n:ℕ. P(n) & (∀m:ℕ. m<n ⇒ ¬P(m)))
  by RewriteOfThm
     Thm* all
          (λP:hnum → hbool. implies
                            (exists(λn:hnum. P(n))
                            ,exists
                             (λn:hnum. and
                                        (P(n)
                                        ,all
                                         (λm:hnum. implies
                                                    (lt(m,n)
                                                    ,not(P(m))))))))
     {hwop}
     (SimpsetC [`hol_to_nuprl`;`bequal`])
END
```