```
hwop  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))))))))
  by HOL "hwop"
END
```