

> #  $n^m$  : by  $h \cdot e$

> for  $h$  from 2 to 3 do for  $e$  from 2 to 3 do if  $isprime\left(\frac{h^{\frac{e-1}{h-1}} - 1}{h-1}\right)$

then print  $\left(\frac{[h]^{\frac{[e]-1}{[h]-1}} - 1}{[h]-1} = \frac{h^{\frac{e-1}{h-1}} - 1}{h-1} [prime]\right)$  fi:od:od:

$$\frac{[2]^{\frac{[2]-1}{[2]-1}} - 1}{[2]-1} = 7_{prime}$$

$$\frac{[2]^{\frac{[3]-1}{[2]-1}} - 1}{[2]-1} = 8191_{prime}$$

$$\frac{[3]^{\frac{[2]-1}{[3]-1}} - 1}{[3]-1} = 13_{prime}$$

$$\frac{[3]^{\frac{[3]-1}{[3]-1}} - 1}{[3]-1} = 797161_{prime}$$

(1)