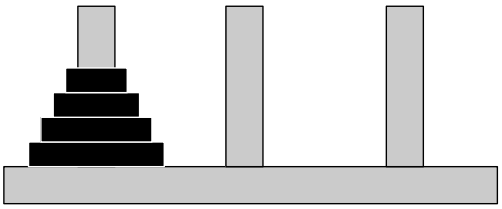
Tower of Hanoi Program Search Jigsaw

The words hidden in the following word search can be put back together in a way that makes a 7 line Python function that solves the ancient Towers of Hanoi puzzle. To solve the puzzle you must come up with a series of steps to move a stack of different sized rings from one pole to another. They must be moved one at a time, using only a single intermediate pole, so that no ring is ever placed on top of a smaller ring.



We have hidden the function in the following word search grid vertically and horizontally. Punctuation is included at the start or end of words. Spaces separate words. Repeated words appear multiple times. Can you find every part of the function and then put it back together so that it works. An example call to the function might be:

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thanoi (4, 1, 2, 3)
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meaning move 4 rings from pole 1 to pole 2 via pole 3.

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i f o t h e r ( : 1 = = ) v e f m
p r = t n i r p i n = : o ) h r o
i o t h a n o i " - " , t m a o v
e n h a ( p i e c e s , e o n - e
c " a n ( " o c r i n ) v r , 1 t
e , n o m o t e l s e : o f m m o
s v o i m d m s g n i r m e o o )
( p i e c e s - 1 , o v o v r v o
d e m t h f p 1 , " t p v o f e :
e v o m " ( 1 , d t h a e m e f )
m o v e f r o m , f e f t s v r r
, r e h t o o t h e r ) o = o o e
m o t h a n o i r i , t , = m m h
o m o v e f r o m , f r o m " , t
m r , m o v e t o , t h a n o n o
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