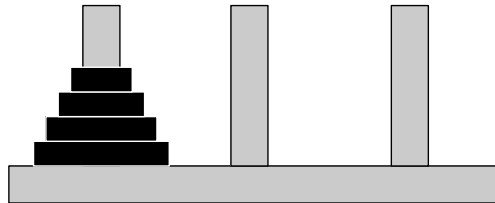# Program search

The following 7 line Python program 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.


```
def thanoi (pieces, movefrom, moveto, other):
    if pieces == 1:
        print ("move ring from", movefrom, "-", moveto)
    else:
        thanoi (pieces-1, movefrom, other, moveto)
        thanoi (1, movefrom, moveto, other)
        thanoi (pieces-1, other, moveto, movefrom)
```

We have hidden the program 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 the whole program.

```
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
```