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Towers of Hanni Trace:
  I have printstatements throughout the function to help trace:
 def moves (n, left):
         Print("here "+str(n1)
          if n == 0:
                return
           moves (n-1, not left)
           Print ("here 1" + str(n))
           If left:
               print(str(n)+ left')
           else:
                Print(str(n)+1 right')
          Print ("here 2"+str(n))
        moves (n-1, not left)
  print(moves(3, true))
 says here 3, 2, 1, then 0
 that means it goes thrown the function and odds to the stack:
 moves (3, True) moves (2, false) moves (1, True) to be added
  here 1 - now after the recursion part
  I left - executes if left: n=1
 herez 1 -n isstill 1
 here 0 - niso, goesthrough stack again (n=1 function has already happened, so it goest n=2)
herel 2 - nis now 2 (goingthrough the stack)
Prints "2 right" because it is more (2, Fabe) notine
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here 2 2 - goes past print Statement for 2 ng nt now it calls noves (n-1, not left) nis now 1 and moves (1, True) is added to the stack here 1 - nis now 1 here 0 - (mis now 0 again Stack: moves (1, True), moves (3, True) 4 last to be added, so this is what will be called Prints here I 1 - means it's starting after where it leftoff n = 1 prints "I left" - if True statement is followed through prints here 2 1 - n is still = 1 calls moves (n-1, notleft) - n=0, left is False Stack just has moves (3, True) now here 0 - now returns so it goes to functions in Stack here1 3 - n is now = 3 prints 3 left because the boolean is True calls moves(n-1, notleft) - moves(2, False) is added to stack here here 1 } calls moves (1, True) and then gosto here

Stack: moves (1, True), moves (2, False)
at the top

here 1 1 - n=1

prints 1 left because left = True

Moves (n-1, not left) - n=0, goes back to stack because of return

moves (2, Fake) is now called so h=Z

goes to else statement - prints "2 right"

moves (h-1, hot left) is called - Stack: moves (1, True)

n resets to 0 after first moves (h-1, not left) is called from where it left off

h=1, left - true so it prints "1 left"

Calls moves (h-1, not left) so h=0.

Stack = empty, return is Now,

Recursion ended!