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# Recursive Python function to solve the tower of hanoi

def TowerOfHanoi(n , source, destination, auxiliary):
      if n==1:
            print ("Move disk 1 from source",source,"to
destination",destination)
            return
      TowerOfHanoi(n-1, source, auxiliary, destination)
      print ("Move disk",n,"from source",source,"to
destination",destination)
      TowerOfHanoi(n-1, auxiliary, destination, source)

# Driver code
n = 4
TowerOfHanoi(n,'A','B','C')
# A, C, B are the name of rods
```

**********output**********

```
Move disk 1 from source A to destination C
Move disk 2 from source A to destination B
Move disk 1 from source C to destination B
Move disk 3 from source A to destination C
Move disk 1 from source B to destination A
Move disk 2 from source B to destination C
Move disk 1 from source A to destination C
Move disk 4 from source A to destination B
Move disk 1 from source C to destination B
Move disk 2 from source C to destination A
Move disk 1 from source B to destination A
Move disk 3 from source C to destination B
Move disk 1 from source A to destination C
Move disk 2 from source A to destination B
Move disk 1 from source C to destination B
```