Hands-on Activity 4.1: The Tower of Hanoi Problem

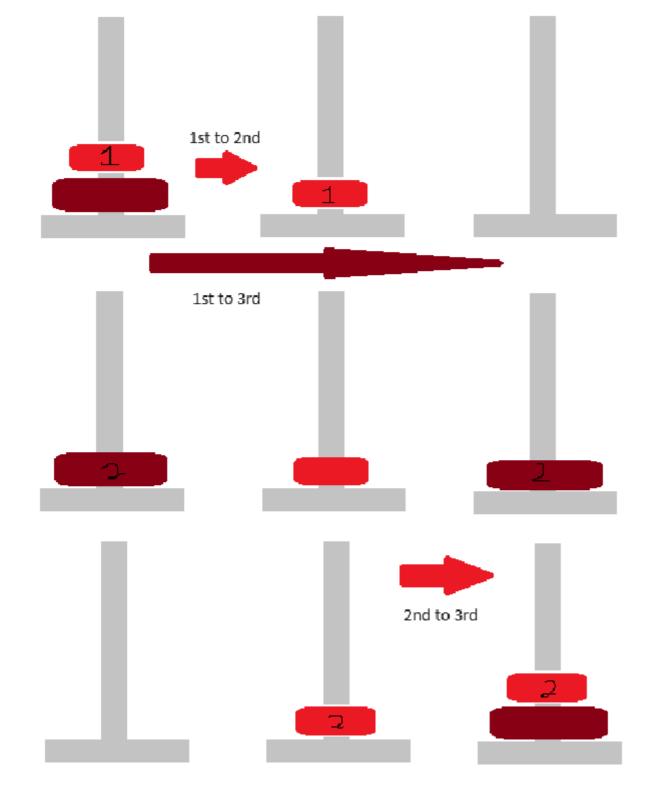
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```
def TOH(n, Sour, Aux , Des):
    if n==1:
        print("Move Disk" , n," from ", Sour ," to ",Des)
    else:
        TOH(n-1,Sour,Des,Aux);
        print("Move Disk", n ," from ", Sour ," to ",Des)
        TOH(n-1,Aux,Sour,Des);

n = (int(input("How many Disk:")))
TOH(n, '1st' , '2nd' , '3rd' )

How many Disk:2
    Move Disk 1 from 1st to 2nd
    Move Disk 2 from 1st to 3rd
    Move Disk 1 from 2nd to 3rd
```

Double-click (or enter) to edit



Rules:

- 1. One Disk at a time
- 2. The disk can't be move if there is an upper disk
- 3. Larger/Higher disk can't be put above smaller disk

As there is only 2 disk here we only need to move the disk 1 to 2nd, disk 2 to 3rd, then the disk 1 to 3rd.

Double-click (or enter) to edit

```
if n==1:
     print("Move Disk" , n," from ", Sour ," to ",Des)
 else:
     TOH(n-1,Sour,Des,Aux);
     print("Move Disk", n ," from ", Sour ," to ",Des)
     TOH(n-1,Aux,Sour,Des);
n = (int(input("How many Disk:")))
TOH(n, '1st', '2nd', '3rd')
How many Disk:3
    Move Disk 1 from 1st to 3rd
    Move Disk 2 from 1st to
                               2nd
    Move Disk 1 from 3rd to
                               2nd
                                                   2nd Step
                                    1st step
                                   3rd Step
                                                    4th Step
                                       5th Step
                                                   6th Step
                                             7th/Last Step
```

def TOH(n, Sour, Aux , Des):

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