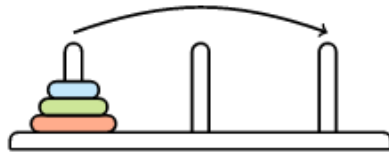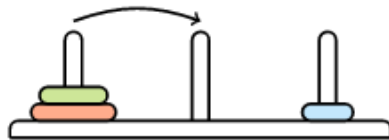Department of Computer Appliations

19CAT602-Data Structures and Algorithms
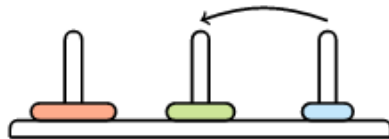
Recursive algorithms
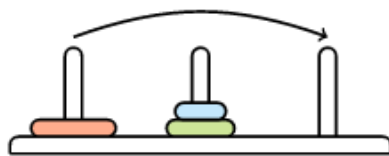
1. Move disk from peg 1 to peg 3

2. Move disk from peg 1 to peg 2

3. Move disk from peg 3 to peg 2

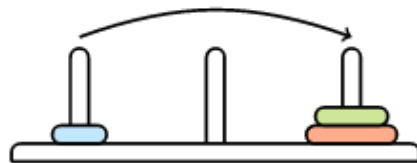4. Move disk from peg 1 to peg 3

5. Move disk from peg 2 to peg 1

6. Move disk from peg 2 to peg 3

7. Move disk from peg 1 to peg 3

Solution


```
                        (4,1,3)
              /                      \
        (3, 1, 2)                   (3, 2, 3)
        /       \                   /       \
   (2, 1, 3)  (2, 3, 2)      (2, 2, 1)    (2, 1, 3)
    /    \      /    \          /    \       /    \
(1,1,2)(1,2,3)(1,3,1)(1,1,2)(1,2,3)(1,3,1)(1,1,2)(1,2,3)
```