

2. Define the problem of Tower of Hanoi with suitable example.

Definition :- Tower of Hanoi is a mathematical puzzle, where we have three rods and 'n' disks. The objective of the puzzle is to move the entire stack to another rod, obeying the following simple rules :-

1. Only one disk can be moved at a time.

2. Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack. i.e. a disk can only be moved if it is the uppermost disk on a stack.

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3.) No disk may be placed on top of a smaller disk.

Example: -

Disk 1 moved from A to B

Disk 2 moved from A to C

Disk 1 moved from B to C

Disk 3 moved from A to B

Disk 1 moved from C to A

Disk 2 moved from C to B

Disk 1 moved from A to B

Disk 4 moved from A to C

Disk 1 moved from B to C

Disk 2 moved from B to A

Disk 3 moved from B to C

Disk 2 moved from A to C

Disk 1 moved from B to C