Tower Of Hanoi - Problem Statement

Send Feedback

Tower of Hanoi is a mathematical puzzle where we have three rods and n disks. The objective of the puzzle is to move all disks from source rod to destination rod using third rod (say auxiliary).

The rules are:

ас

- 1) Only one disk can be moved at a time.
- 2) A disk can be moved only if it is on the top of a rod.3) No disk can be placed on the top of a smaller disk.

3) No disk can be placed on the top of a smaller disk.
Print the steps required to move n disks from source rod to destination rod.
Source Rod is named as 'a', auxiliary rod as 'b' and destination rod as 'c'.
Input Format :
Integer n
Output Format :
Steps in different lines (in one line print source and destination rod name separated by space)
Constraints:
$0 \le n \le 20$
Sample Input 1:
2
Sample Output 1:
a b
a c
b c
Sample Input 2:
3
Sample Output 2:
a c
a b
c b
a c b a
b c
D C