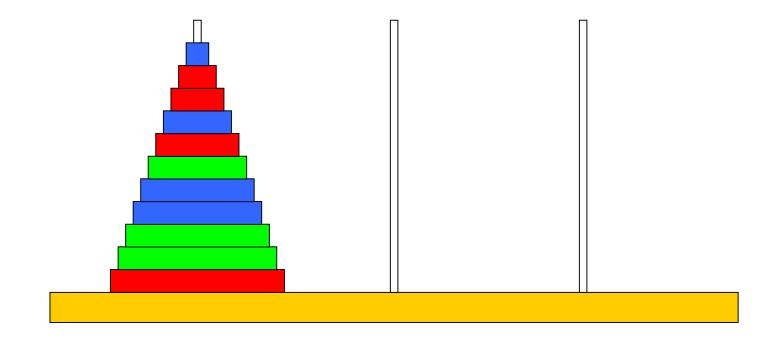
CSIT113 Problem Solving

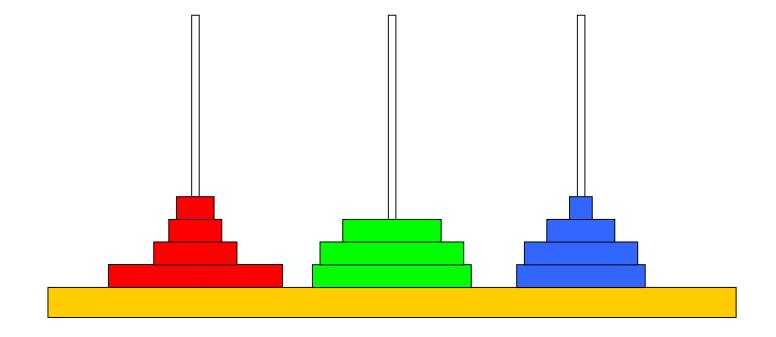
Workshop Week 7

- Consider a "Towers of Hanoi" problem with one extra condition:
 - Each of the disks is coloured randomly either red, green or blue.
- Using the normal rules devise an algorithm to put each colour of disc on its own needle.

• Start:



• Finish:



- You must still obey all the standard rules:
 - 1. Only one disc may be moved at a time
 - 2. Discs may only be placed on needles
 - 3. A larger disc may never be placed on a smaller disc
- You may assume that you have $H_{k,d}$ and $\langle k,d \rangle$ already defined.