

Tower of Hanoi

The puzzle begins with the disks stacked on first tower (START) in order of decreasing size, the smallest at the top.



The objective of the puzzle is to move the entire stack to the last tower (FINISH), obeying the following rules:

- Only one disk may be moved at a time.
- Each move consists of taking the upper disk from one of the stacks and placing it on top of another stack.
- No disk may be placed on top of a disk that is smaller than it.

Programming

Problem 1

Write a program to move the disks with your robotic arm to solve the above puzzle.

With 3 disks, the puzzle can be solved in 7 moves.

Move 1:



Move 2:



Move 3:



Move 4:



Move 5:



Move 6:



Move 7:



Problem 2

Modify your program to solve a 5-disks puzzle.



With 5 disks, the puzzle can be solved in 31 moves.