

# Assignment Project Exam Help



**UNSW**  
SYDNEY

**COMP9020**

Foundations of Computer Science

Lecture 9 Preview: Recursion

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## Puzzle: Towers of Hanoi

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- There are 3 towers (pegs)
- $n$  disks of decreasing size placed on the first tower
- You need to move all disks from the first tower to the last tower
- Larger disks cannot be placed on top of smaller disks
- The third tower can be used to temporarily hold disks

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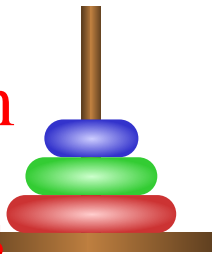


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## Questions

- Describe a general solution for  $n$  disks
- How many moves does it take?

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<https://www.cse.unsw.edu.au/~cse9020/graphics/hanoi>

### Challenge

- Find the optimal solution for 10 disks.
- Collaboration/collusion strongly encouraged.
- If more than 50 students achieve an optimal solution before Friday lecture there'll be prizes for all students<sup>a</sup>!

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<sup>a</sup>who attend the Friday lecture