

程序代写代做 CS编程辅导



COM

Foundations of Computer Science

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Lecture 9 Preview: Recursion

Assignment Project Exam Help

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UNSW  
SYDNEY

# Puzzle: Towers of Hanoi

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- There are 3 towers
- $n$  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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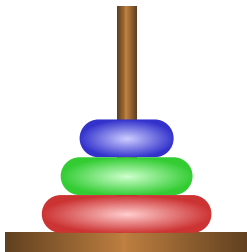
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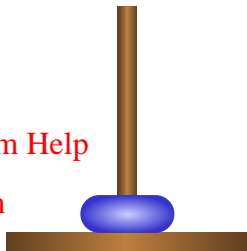
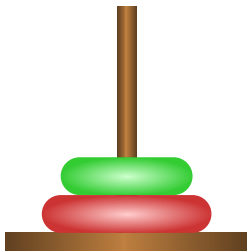
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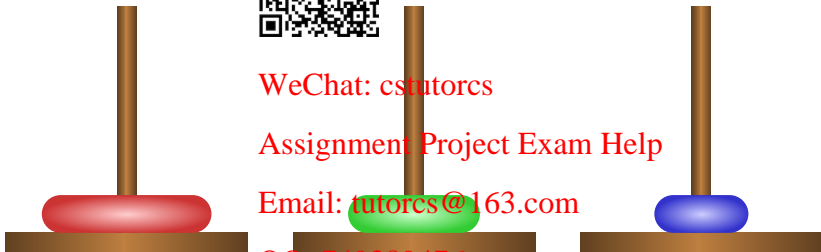
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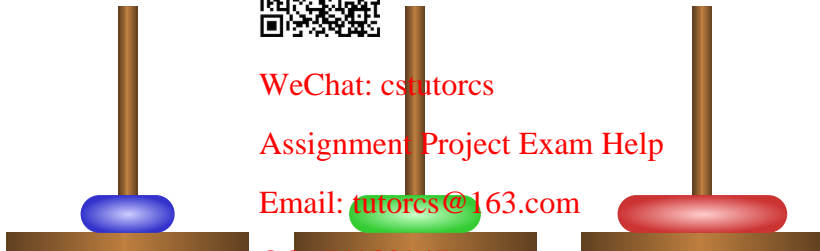
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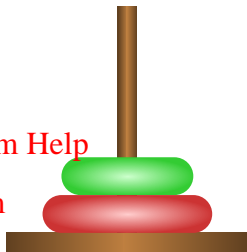
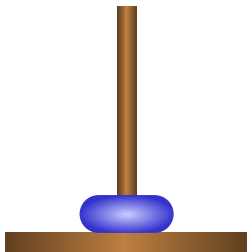
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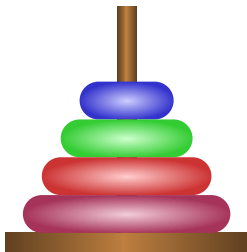
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## Questions

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

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## Weekly Challenge 2

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<https://www.cdu.edu.au/~cs9020/cgi-bin/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>!

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

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