**COMP9020**

Foundations of Computer Science

Lecture 6 Preview: Graph Theory

Can you find a route which crosses each bridge exactly once?

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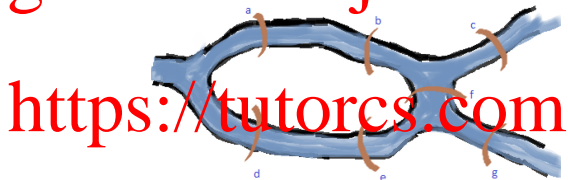
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Can you find a route which passes through each door exactly once?

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Can you draw this without taking your pen off the paper?

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Can you connect all utilities to all houses without crossing connections?

The following table describes several subjects and the students taking them:

| Potions | Charms | Herbology | Astronomy | Transfiguration |
|---------|--------|-----------|-----------|-----------------|
| Harry | Ron | Harry | Hermione | Hermione |
| Ron | Luna | George | Neville | Fred |
| Malfoy | Ginny | Neville | Seamus | Luna |

How many examination timeslots are needed so that no student has two (or more) exams at the same time?

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www.chiark.greenend.org.uk/∼sgtatham/puzzles/js/untangle.html