



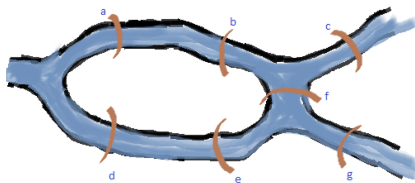
# COMP9020

Foundations of Computer Science

Lecture 8 Preview: Graph Theory

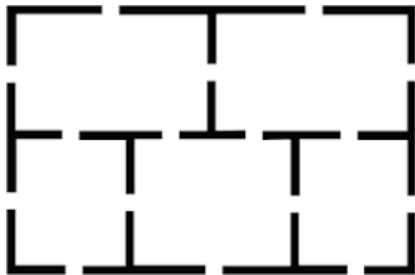
- Assignment 1 released in inspera. Due **12 noon, Friday 27th October (AEDST)**.
- Two formatif tasks (3.2P, 4.1P) available – support Assignment 1
- Feedback:
  - Lecture recording ending prematurely
  - Slides available sooner

# Puzzle 1



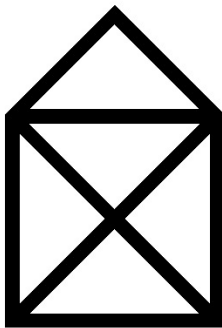
Can you find a route which crosses each bridge exactly once?

## Puzzle 2



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

## Puzzle 3



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

## Puzzle 4



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

## Puzzle 5

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

<b>Potions</b>	<b>Charms</b>	<b>Herbology</b>	<b>Astronomy</b>	<b>Transfiguration</b>
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?

# Untangle game



<https://webcms3.cse.unsw.edu.au/COMP9020/23T3/resources/92234>