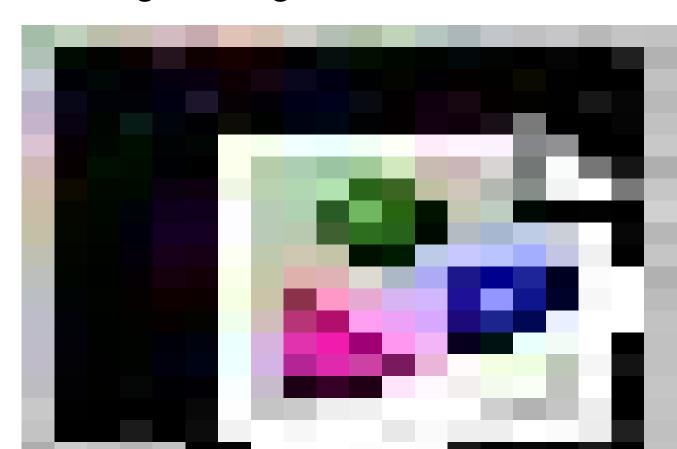
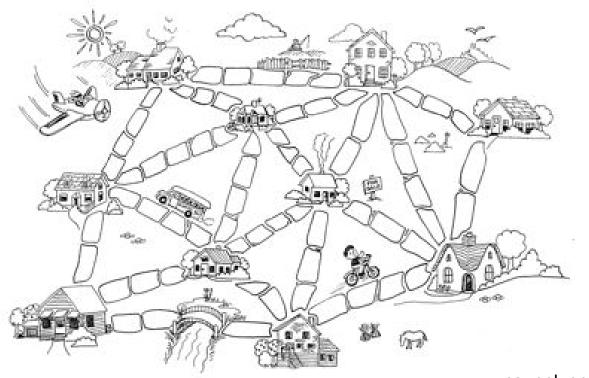
## COMP20007 Design of Algorithms: Week 3

# The Silk Road An ancient network

Painted wall at Khiva, beside Al Khwarizmi's Statue



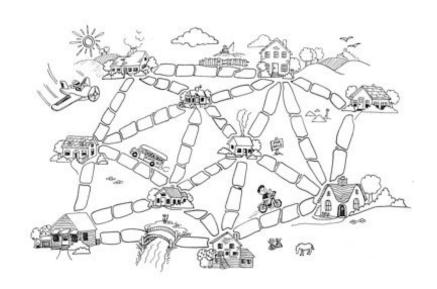
#### Connect the houses using the least amount of paving



csunplugged.org

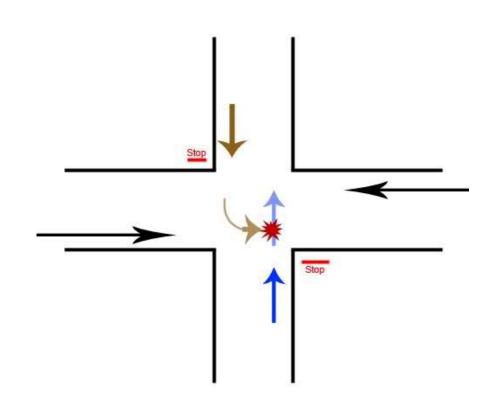
#### Introduction to graphs

- Representing the problem using known ADTs
- Algorithm for identifying the minimal set of connections
- Required operations
- Some applications of graphs



### Modelling traffic flows

- Design an intersection
- Data structure
- Algorithm
- More graph operations
- Formal definition
- Graph operations and signatures



# Reading

DPV 3.1, 3.2

