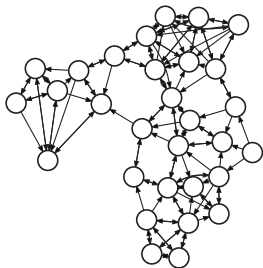
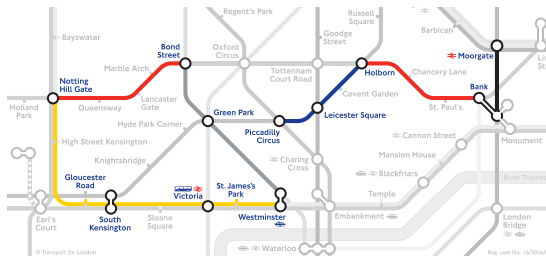
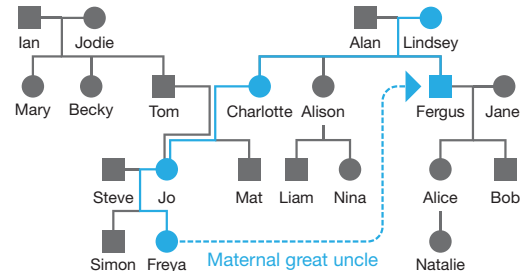


**a** Random graph**b** London Underground

Traversal

Shortest-path

**c** Family tree**Underground input:**

(OxfordCircus, TottenhamCtRd, Central)  
 (TottenhamCtRd, OxfordCircus, Central)  
 (BakerSt, Marylebone, Circle)  
 (BakerSt, Marylebone, Bakerloo)  
 (BakerSt, OxfordCircus, Bakerloo)  
 ⋮  
 (LeicesterSq, CharingCross, Northern)  
 (TottenhamCtRd, LeicesterSq, Northern)  
 (OxfordCircus, PiccadillyCircus, Bakerloo)  
 (OxfordCircus, NottingHillGate, Central)  
 (OxfordCircus, Euston, Victoria)

84 edges in total

**Traversal question:**

(BondSt, \_, Central),  
 (\_, \_, Circle), (\_, \_, Circle),  
 (\_, \_, Circle), (\_, \_, Circle),  
 (\_, \_, Jubilee), (\_, \_, Jubilee),

**Answer:**

(BondSt, NottingHillGate, Central)  
 (NottingHillGate, GloucesterRd, Circle)  
 ⋮  
 (Westminster, GreenPark, Jubilee)  
 (GreenPark, BondSt, Jubilee)

**Shortest-path question:**

(Moorgate, PiccadillyCircus, \_)

**Answer:**

(Moorgate, Bank, Northern)  
 (Bank, Holborn, Central)  
 (Holborn, LeicesterSq, Piccadilly)  
 (LeicesterSq, PiccadillyCircus, Piccadilly)

**Family tree input:**

(Charlotte, Alan, Father)  
 (Simon, Steve, Father)  
 (Steve, Simon, Son1)  
 (Nina, Alison, Mother)  
 (Lindsey, Fergus, Son1)  
 ⋮  
 (Bob, Jane, Mother)  
 (Natalie, Alice, Mother)  
 (Mary, Ian, Father)  
 (Jane, Alice, Daughter1)  
 (Mat, Charlotte, Mother)

54 edges in total

**Inference question:**

(Freya, \_, MaternalGreatUncle)

**Answer:**

(Freya, Fergus, MaternalGreatUncle)