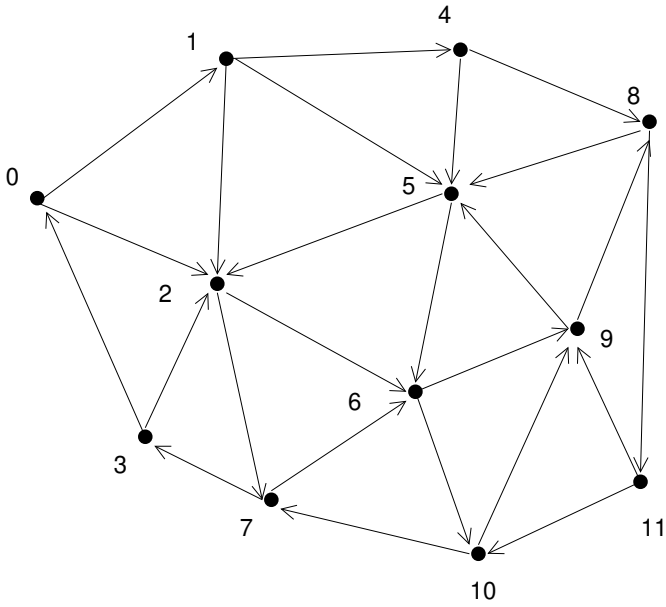
Chapter 4, Graphs:

- Concepts and implementation (last week Friday)
- Traversal (**Today** *and in lab Thursday*)
- Minimum spanning trees (next week Friday and week-after Monday)
- Single-source shortest paths (Feb 26 and 28)

Today:

- Finish talking about graph implementation
- Traversal problem and intuition
- BFT and DFT similarities and differences
- Analysis

	Adjacency matrix	Adjacency list
Space	$\Theta(V^2)$	$\Theta(V + E)$
`adjacent(u, v)`	$\Theta(1)$	$\Theta(deg(u))$ (expected case)
`getAdjacents(u)`	$\Theta(V)$	$\Theta(deg(u))$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Coming up:

Do **heaps and priority queue** *project (due Wed, Feb 19)*

Due **Thurs, Feb 20** *(but spread it out):*
Read Section 4.(1–3)
Do Exercises 4.(1 & 19).
Take graph quiz

Due **Mon, Feb 24**
Read Section 4.4
Do Exercises 4.(40, 42, 43)
(See comments on Canvas)
Take MST quiz