Chapter 4, Graphs:

- ▶ Concepts and implementation (Monday)
- ▶ Traversal (**Today** *and in lab Thursday*)
- ▶ Minimum spanning trees (Friday and next week Monday)
- ▶ Single-source shortest paths (next week Wednesday and Friday)
- ▶ (Test 1, Wednesday, Oct 15 (week-after Wednesday))

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)	$\Theta(V)$	$\Theta(deg(u))$
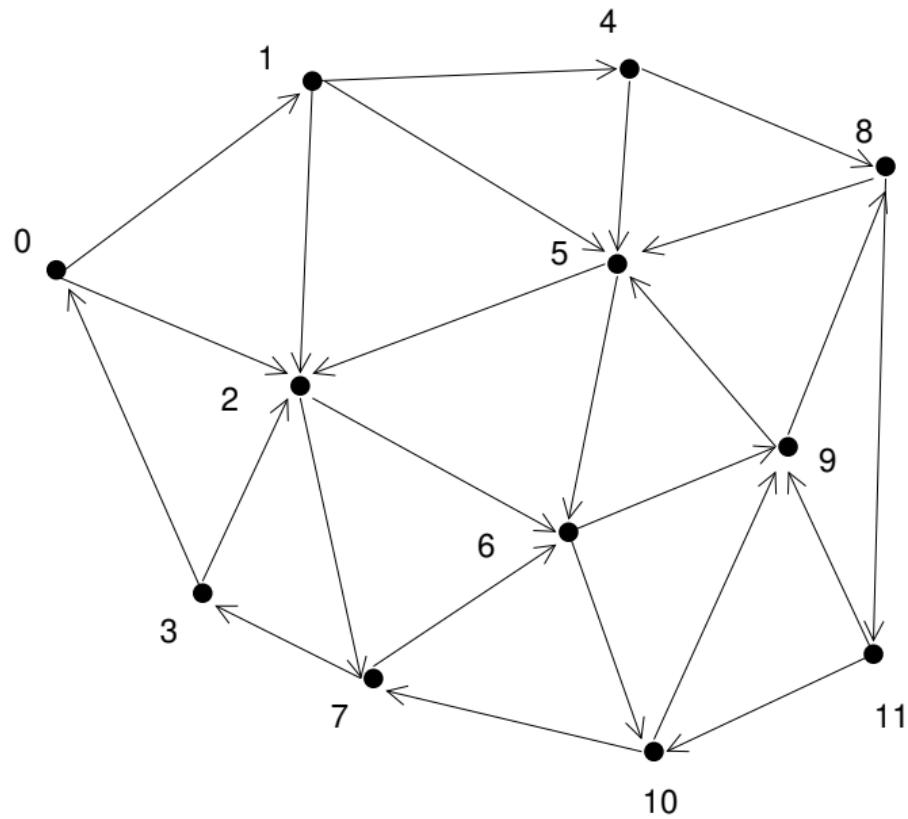
Coming up:

Do **heaps and priority queue** *project (Fri, Oct 3)*

Due **Thurs, Oct 2***:*
Read Sections 4.(1-3) This is a big chunk—spread it out!
Do Exercises 4.1 and 4.19
Take "graph concepts, implementation, and traversal" quiz