Matt		Walker	
Roody	Ethan	Charlotte	
	David	Jiaqi	Fahmid
Jameel	Jac		Bayu
Will			Peter
Sabrina			
	Dennis		Paul
Kaela	Tiansheng	Mark	Queenie
Cater	Youssef	Jack	Katelyn
Josh		Alex	

Ding	Leah		
lsha	Samantha		Jake
Assadou	Jeff	Cynthia Hugo	Michael
Joseph	Danzan	Majd	Kaylen
Franklin	Axel		Corey
Peter			Gretchen
	Siyuan	Wayne	
	Ben	JB	
	Ruben	Deen	



- Describe graphs using adjacency matrices and lists
- Write pseudocode using adjacency matrices and lists

Graph Reps



Create a representation of the graph at left using both an adjacency matrix and an adjacency list representation.

In each representation, how do you represent:

- Directed edges
- Self-loops (edge from vertex to itself)
- Weighted edges

Graph Reps

Suppose an undirected graph G = (V, E) has *n* vertices and *m* total edges. Write two pseudocode programs to learn degree of vertex v (one with adjacency matrix, one with adjacency list). Which representation gives a faster algorithm?

Input: v, A for graph G = (V, E) (either adjacency matrix, or adjacency list of the graph) Output: Degree of v