

CS16 Section 5 Mini-Assignment

Due in your section the week of:

3/12 - 3/14

Please bring a hard copy of your answers to section!

Note for Monday section students: This material will be covered in more detail in Tuesday lecture and your section TAs can go over it more detail, so don't worry if you don't get all of these mini assignment problems!

Problem 1: Adjacency Matrices

Consider the two adjacency matrices A and B below.

A :

	1	2	3	4	5
1	F	F	F	T	T
2	F	F	T	F	F
3	F	T	F	F	T
4	T	F	F	F	F
5	T	F	T	F	F

B :

	1	2	3	4	5
1	F	T	T	F	F
2	T	F	F	F	T
3	T	F	T	F	T
4	F	F	F	F	F
5	F	T	T	F	F

1. Draw their respective undirected graphs.
2. List the properties of both graphs and note the differences.
3. Could you have determined any of these properties by just looking at the adjacency matrices?

Problem 2: Poetry

Write an interpretive poem on the question "What is a tree?" Feel free to substitute "tree" with your favorite data structure or TA.