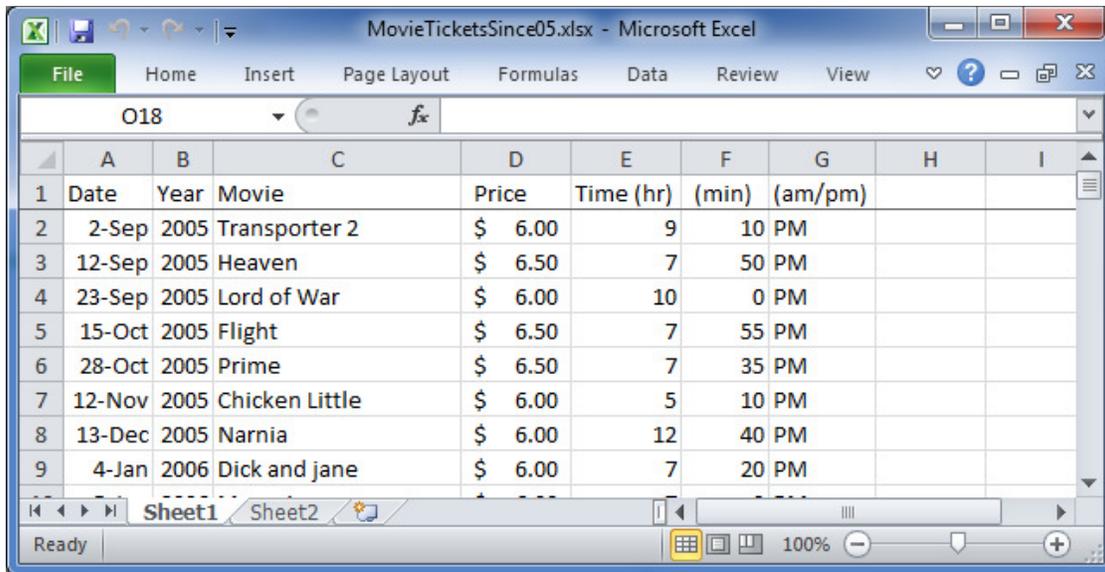Name: _____ Section 09

Exam3

_____/30pts   (30min) 30 Multiple Choice Questions

_____/25pts   (30min + 15min overtime) Coding

This is a 2-part exam. Today, you write 1 programmer defined function to load the data and filter what will be used next time. At the end of the class time today, submit ONLY the function file. DO NOT submit a main, nor an excel sheet.

The data file is a database of movies I've seen since 2005.

The requirements for the programmer defined function are:
- (2pts) It has 1 parameter: the filename of an excel sheet of movies
- (2pts) It returns 3 variables:
    - a 2D numerical matrix. Column1 has the *year*, and column2 has the *price*.
    - 1 numerical vector, which has all the *Time(hr)* only. Do no worry about the minutes.
    - 1 cell-array, which has the AM/PM column. It should no longer have the (am/pm) label at top though.

The function should load the data file (3pts), extract and return the numerical matrix (3pts), the numerical vector (2pts), and the cell-array (3pts) properly. The function should have proper documentation/author information (3pts), comments and proper spacing (3pts).

You are not to provide me with a main code (it will not count for any credit). However, please provide how the function would be called to load this particular excel sheet. Place that as a comment at the bottom of the function file, omit the semi-colon (2pts).

Anything not mentioned in the requirement is for you to choose. (2pts)

Get started for Thursday:
As I've mentioned in class, be smart! You have 4 days to practically figure out/practice a LOT/anticipate part2.
Go ahead and create the main code already! Call the function you just created. (Fix it if there were still flaws). Then,
randomly come up with things to solve! You may come up on your own with pieces of part2. That's ok!