CS 160 CS Orientation

More Lists in Python...

Odds and Ends

Assignment #8 questions?

Lists vs. Arrays

- Python supports lists, but we will use them as arrays
- Arrays are all same data type and contiguous in memory
- Lists can vary in data types and they are not necessarily contiguous.
- Both list and arrays are linear data structures

2-D Array Demo...

- What is it?
- When would you use one?

Exercise #6: 2-d Arrays

- Get into groups. Answer the following.
- How would we change the travel program to have a 2-d array for multiple trips?
- How would you write calculate trips()?

```
2. ENGR
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                                                                              Close
 1 def print board(b):
      print(b[0][0]+'|'+b[0][1]+'|'+b[0][2])
 3
      print('----')
      print(b[1][0]+'|'+b[1][1]+'|'+b[1][2])
 5
      print('----')
 6
      print(b[2][0]+'|'+b[2][1]+'|'+b[2][2])
 8 def get location(b,p):
 9
      row=int(input("Enter the row, 0-2: "))
10
      col=int(input("Enter the col, 0-2: "))
11
      b[row][col]=p
12
13 def main():
14
      board=[[' ']*3, [' ']*3, [' ']*3]
15
      print board(board)
16
      player1='x'
17
      player2='o'
18
19
      while((not winner) and turn<=9):</pre>
20
         player piece=player1
21
         get_location(board,player_piece)
22
         print board(board)
23
24
25 main()
"tic_tac.py" 25L, 546C
                                                                              All
                                                               22,7
```