CS 112 Lab 10

Dictionaries

Three weeks until the semester is over...

A note about the final exam

Per departmental policy, you **must** pass the final exam to **pass the class**

Failing the final exam (<60%) will result in a failing course grade unless you have an average exam score >=65%.

Project 4

Due Saturday (July 13th)

Working with 2-D Lists and function calls

40% of your grade is based off of manual inspection

Read the project handout and make sure you are following all requirements otherwise you will be deducted points for the manual inspection portion

Dictionaries

Passed by reference (just like lists)

Created by assignment a variable to {...}
   {..} syntax is what arrays use in other programming languages

Multiple build-in methods that can be used on dictionaries
   .items()
   .keys()
   .update()
   ...

.items()

Returns the dictionary's key-value pairs

```python
car = {
    "brand": "Ford",
    "model": "Mustang",
    "year": 1964
}


x = car.items()
```

```
dict_items([('brand', 'Ford'), ('model', 'Mustang'), ('year', 1964)])
```

Traversing a dictionary

You can traverse a dictionary with .items()

```python
for key, value in dictionary.items():
    ...
```

Inserting into a Dictionary

```
dictionary[key] = value
```

Lab 10

3 Tasks
   12 test cases – each worth about .6 points

Download the tester

Make sure to read the instructions carefully

Order of difficulty (easiest to hardest):
   passing(), add_name(), largest_count()