Tuesday 2/4

Welcome! ▣

Announcements:

- Results for g06-g08 are on Blackboard
- Exercise g09 and g10 are posted and due on Friday
- Exercise g11 will be posted on Thursday and due Friday

- Information session with the Arizona Governor's Office

> *Thursday, February 6th, during class*
>
> Representatives from the Arizona Governor's Office will visit class to talk about working at the office.

Tips:

- Test functions **one at a time as you write them**

    - Especially in g09, which has 5 functions
    - E.g., check read_households() **before** writing ind_demand(), etc.

- Rounding to integers:
    round(3.14**, 0**) returns a float: 3.0
    round(3.14) returns an int: 3

- More on Python tuples:

    Key use: **dictionary keys** (keys must be immutable):

```
salary = {
    ("Smith", "Clara"): 72015,
    ("Jones", "Beth"):  80145,
    ("Jones", "Allan"): 65234
}
```

When sorted, lists of tuples are **automatically sorted hierarchically**:

- Initially sorted by **1st value**
- Then records with identical 1st value sorted on **2nd value**,
- And so on …

```
keys = salary.keys()
```

keys ☞ [
        ("Smith", "Clara"),
        ("Jones", "Beth"),
        ("Jones", "Allan")
     ]

```
by_name = sorted( keys )
```

by_name ☞ [
    ("Jones", "Allan"),
    ("Jones", "Beth"),
    ("Smith", "Clara")
]

More features of tuples in the future