

2. Write a function called `get_all_students` that takes in the dictionary organized by name and returns the total number of students:

3. Write a function called `transpose_by_URL` that takes in the dictionary organized by name and transposes it by URL so it looks like so:

```
1 college_dict = {
2     'jmu.edu': {'Location': 'Harrisonburg-VA',
3               'Name': 'James Madison University',
4               'Students': '19019'},
5     'msu.edu': {'Location': 'East Lansing-MI',
6               'Name': 'Michigan State University',
7               'Students': '38853'},
8     'muhlenberg.edu': {'Location': 'Allentown-PA',
9                       'Name': 'Muhlenberg College',
10                      'Students': '2330'},
11    'umaine.edu': {'Location': 'Orono-ME',
12                  'Name': 'University of Maine',
13                  'Students': '8677'},
14    'westminstercollege.edu': {'Location': 'Salt Lake City-UT',
15                              'Name': 'Westminster College',
16                              'Students': '2135'}
17 }
```

Note that `transpose_by_URL` is meant to me a mutator function (that is it changes the dictionary in place without creating another dictionary).

4. With this new dictionary does the code for `get_all_students` need to change? Explain why.
5. Write a function called `get_min_students` that takes in the dictionary organized by URL and returns the name of the college with the least number of students:

6. Write a function called `input_by_column` that takes in the filename and returns a dictionary organized by the column's name:

```
1 column_dict = {
2     'Location': ['East Lansing-MI',
3                 'Salt Lake City-UT',
4                 'Allentown-PA',
5                 'Orono-ME',
6                 'Harrisonburg-VA'],
7     'Name': ['Michigan State University',
8             'Westminster College',
9             'Muhlenberg College',
10            'University of Maine',
11            'James Madison University'],
12    'Students': ['38853', '2135', '2330', '8677', '19019'],
13    'URL': ['msu.edu',
14           'westminstercollege.edu',
15           'muhlenberg.edu',
16           'umaine.edu',
17           'jmu.edu']
18 }
```

7. Re-write `get_min_students_column` that takes in the dictionary organized by column name and returns the name of the college with the least number of students: