CIS 210 Winter 2020

Lab/Week 9 – Summary

More practice with dictionaries and lists and finding and fixing bugs.

Exercises

(1) Given the following lists of dates and temperatures:

```python
days = ['Mo', 'Tu', 'We', 'Th']
temps = [55, 23, 42, 44]
```

Write a function, `createTempD`, that takes the two lists and returns a dictionary with the days as keys and the temperatures as the values. Assign the result of executing `createTempD` to `dd`, which will be used in the exercises that follow.

(2) Use `dd` to find the temperature for 'We'.

(3) Add a temperature of 32 for 'Fr'.

(4) Create a sorted list of all of the temperatures in `dd`.

(5) Add a temperature of 60 for 'Saturday'.

(6) Delete the temperature for 'Saturday' and add a temperature of 60 for 'Sa'.

(7) Add a temperature of Saturday's temperature plus 10 degrees for 'Su'.
Although Python provides us with many list methods, it is good practice and very instructive to think about how they are implemented. Implement a Python function that works like the following list methods (of course, don’t use the Python methods in your implementation):

(a) count

(b) Does the my_in function implement Python in i.e., return True if an item is in the list, and False otherwise?

def my_in(li, i):
    'returns True if item is in list and False otherwise'
    for item in li:
        if item == i:
            return True
        else:
            return False

(c) index – return -1 if not in the list

(d) reverse