### **CIS 231**

Python – Ch. 9

Case study: word play

## 9.1 – Reading word lists

- The open () function opens a plain text file
  - Creates a file object that marks its spot in the file
- Read a string comprising the next line of text in the file by calling readline()
- You can remove whitespace (spaces, tabs, newlines) with the string's strip() function
- You can iterate through each line in the file by using a for-in loop

#### 9.3 - Search

- Search is a common task whenever we have multiple pieces of data (or entities like string that have multiple components)
- The simplest approach is a linear (or sequential) search, where each item is inspected one at a time until the item is found
- Don't forget that in works for looping through the chars in a string, and to see if a character is in that string

```
if letter in forbidden:
```

# 9.4 – Looping with indices

- indices the plural of index
- If you need the index of where something occurs, you can loop on indices (alt. to while on p. 84)

```
def is_abecedarian(word):
for i in range(len(word) - 1):
    if word[i + 1] < word[i]:
        return False
return True</pre>
```

#### **Next Time**

- Ch. 10 Lists!
  - A list is a sequence
  - Lists are mutable
  - Traversing a list
  - List operations
  - List slices
  - List methods
  - Map, filter and reduce
  - ...and a bunch more