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Lecture 13 - Review for Midterm

First this weeks lab.

```
2 videos:
stephie_0.mp4
stephie_1.mp4
Get Data / Read in data.
 import readGeneticData
 data = readGeneticData.readGeneticData (filepath)
Searching for a pattern in DNA
 Convert file to a single string. Clean up data.
 data_str = "".join(data)
 data_str = data_str.upper()
Search it.
 x = data_str.index ( pattern )
Better Search it:
 try:
     x = data_str.index ( pattern )
     print ( "Pattern Found at {}".format( x ))
 except:
     print ( "Not Found" )
```

Review

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Create a function.

With a test...

Test a function

- 1. get the code.
- 2. run the code.
- 3. What is the "expectation"
- 4. Why did it fail to meat this "expectation"
- 5. Where in the code did it fail.

```
ll = [ 1, 2 ]
i = 0
while ( i < 2 ):
    print ( "ll[{}] = {}".format( i, ll[i] ))</pre>
```

Another example

```
ll = [ 1, 2 ]
i = 0
while ( i < 2 ):</pre>
```

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```
i = i + 1
print ( "ll[{}] = {}".format( i, ll[i] ))
```