Lists and Loops: Part I
Dr. Ostheimer, New College, Spring 2007

In this lab you will begin to learn to use lists and for statements.

Preparation

• Read sections 8.1 through 8.5 of How To Think.

• Complete the “Using conditionals” lab.

Your questions:

1. Try out the following commands and make sure you understand the output:

   >>> list = [357, 718, 11217, 48, 43]
   >>> list
   ?
   >>> list[0]
   ?
   >>> list[1]
   ?
   >>> list[4]
   ?
   >>> list[5]
   ?
   >>> range(4)
   ?
   >>> x = range(4)
   >>> x
   ?

2. Write a function called mySum to calculate the sum of a list of numbers. Add this to a file called forLoops.py. Here is an example of a call. Make sure all your functions today work for other lengths of lists as well.

   >>> mySum([4, 32, 11, 6])
   53

3. Write a function called myMinimum to calculate the minimum of a list of numbers. Add this to forLoops.py. Here is an example of a call. Make sure your function works for other lengths of lists as well.
4. Write a function called `whereMinimum` that tells you where the minimum occurs in the list. Add this to `forLoops.py`. Here is some calls. Make sure you understand the output before writing any code!

```python
>>> myMinimum([4,32,2,6])
2
```

```python
>>> whereMinimum([4,32,5,6])
2
>>> whereMinimum([4,2,5,6])
1
>>> whereMinimum([4,32,55,41])
0
```

5. **Challenge Problem.** Start thinking about it! It’s time!

**Write up:** Follow the instructions for the write up of portfolio labs.