L1 PROBLEM 4 (4/4 points)

Note: This problem is contingent upon completing the exercises from L1 Problem 3.

Now for the plotting function! In pylab, the `plot` function takes in two equal sized lists and uses the first list as a list of the x-coordinates and the second list as a list of the y-coordinates.

In this problem we'll build a function `producePlot(lowTemps, highTemps)` which takes as parameters `lowTemps` (the list of low temperatures from your previous function) and `highTemps` (the list of high temperatures from your previous function).

1. Define `diffTemps` as a list which is the element by element difference between `highTemps` and `lowTemps`. Which is a valid plotting statement for a graph with days on the horizontal axis and the temperature difference on the vertical axis?

   - `pylab.plot(highTemps,lowTemps)`
   - `pylab.plot(range(1,32), highTemps)`
   - `pylab.plot(range(1,32), lowTemps)`
   - `pylab.plot(range(1,32), diffTemps)` ✔
   - `pylab.plot(diffTemps, range(1,32))`

2. What line of code should your function include in order to give the graph the title 'Day by Day Ranges in Temperature in Boston in July 2012'?

   pylab.title('Day by Day Ranges in Temperature in Bosto

3. What line of code should your function include in order to give the x-axis the label 'Days'?

   pylab.xlabel('Days')

4. What line of code should your function include in order to give the y-axis the label 'Temperature Ranges'?

   pylab.ylabel('Temperature Ranges')

Now that you're armed with the information from the above questions, complete your plotting function with the line `pylab.show()`. If you wrote both functions correctly, a plot should appear when you call your plotting function with the output of your data loading function as its arguments.

What is an Easy Way to Manipulate Lists?

Spoiler: What Does the Program Look Like?

Check | Show Answer

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