CS 110 Project 4
Using classes and the Google API

Due: Tuesday, April 1, Midnight

Write a program that allows the user to surf the web backwards, following the inward links that a special google api search can provide. As the user surfs, you should create a list of all the pages that were visited during the session (the path). This path should be listed after each iteration of the process.

You can get inward links by sending the following to google:

link: <some web page url>

The user will enter a url, and your program will list the title of ten pages that link to it (or fewer if there are not ten). The user can then choose the number of one of the pages listed, and you'll show up to ten pages that link in to that page. Place each page the user chooses into the 'path' and print out the current path each time.

Here's what a run of your program might look like (user input in bold):

Enter a page: **http://sample**

Inward links to Sample

1. A Page that Points to Sample
2. Another Page that Points to Sample
3. Yet Another Page that Points to Sample

Choose a page or 0 to quit: **2**

Path
Sample← A Page that Points to Sample 1

Inward Links to 'Another Page that Points to Sample'

1. Some Page
2. Some Other Page

Design Requirements

You must define a class 'WebPage' with a constructor, a __str__ method, and a method 'get_inward_pages'. Get_inward_pages should return a list of WebPage instances.

WebPage should have two data members, url and title, which can be set with the constructor.