CS2042 Homework 4

Due: Monday October 4th 2010 at 11:59 PM on `http://cms.csuglab.cornell.edu`.

Assignment Notes:

- This asssignment will help us exercise `find`, `tar`, `grep`, and bash scripts.

- Download and extract the necessary files from
  `http://www.cs.cornell.edu/courses/cs2042/2010fa/hw4_data.tar.gz`

- Complete the assignment by writing the commands you used in CMS, plus a simple feedback on the assignment

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- **Problem#1:-** Create a `tar.gz` compressed tarball of all files in the folder `p1`. Call it, `p1.tar.gz`

- **Problem#2:-** Use `find` *OR* write a bash script to rename all the files whose names begin with "`wahle`" to begin with "`whale`" (i.e. we want to fix a typo in the names of multiple files). You can test your work on the contents of the directory `p2`.

- **Problem#3:-** Write a bash script called `keyword_bundle.sh` that takes two arguments: the first is a keyword to search for, and the second is a name of a tarball to create. Your script will look for all files that contain the given keyword, and create a tarball that is compressed with `bzip2` and whose name is the second argument followed by `.tar.bz2`

  - Example usage:

        $> ./keyword_bundle.sh whale whale_files

    will create a file called `whale_files.tar.bz2` that contains all files that have the word "whale" in them.
  - `grep` has a nice flag that can make things very simple for you.
  - If the script is called with less *or more* than two arguments, you should print the following message and exit.
    `Correct Usage:  keyword_bundle.sh <keyword> <bundle_name>`
  - I will only test cases where there is an actual match (i.e. do not worry about dealing with keywords that are not in any file).

Remember your two best friends are the `man` tool and your favorite search engine.