C_HW1 (cat-n) Version 4

Ken Youens-Clark

Abstract

Citation: Ken Youens-Clark C_HW1 (cat-n). **protocols.io**
dx.doi.org/10.17504/protocols.io.fs5bng6
Published: 12 Sep 2016

Protocol

Step 1.

Be sure you have cloned your own 'abe487' repo as well as 'https://github.com/kyclark/metagenomics-book'. Copy the 'metagenomics-book/problems' into your repo so that you have a starting point for the 'cat-n' assignment, then add it to your repo. Be sure to 'git commit' whenever you have something you don't want to lose!

```
$ git clone <your abe487>

$ git clone https://github.com/kyclark/metagenomics-book.git

$ cp -r metagenomics-book/problems abe487

$ cd abe487

$ git add problems

$ git commit -m 'adding problems' problems

$ git push
```

Step 2.

cd into your "problems/cat-n" directory and read the "README" file.

Step 3.

There are several files in place to get you started:

- Makefile: has targets for "run" and "test"
- README: decribes the problem and expected output
- cat-n.sh: edit this file to solve the problem

- input.txt: a sample input file
- test.pl6: a Perl script to test that "cat-n.sh" works as expected

Step 4.

I suggest having two windows (terminals) open -- one where you stay in an editor and another where you can run/test/debug.

Step 5.

You can run the program with the given input file by simply typing "make" to execute the first target in the Makefile. You can also explicitly "make run" to execute the target. Initially, you will just see "OK" from the "cat-n.sh" script.

Step 6.

You will receive no points for the assignment unless "make test" passes all tests as described in the README.

You should test with other input files, e.g.:

```
$ head /usr/share/dict/words > words

$ ./cat-n.sh words
```

Step 7.

While you have a working solution, "git add" any new files you want saved, then commit your work (e.g., "git commit -am solution") and "git push" so it is visible in the Github website.

If you cannot see it on github.com, then I cannot check it out to grade it.

Step 8.

The assignment is due **before class on Thursday, September 15**.