Chapter 4: More Test Cases, Experiences

Our group now has 25 test cases (in *exampleTests.txt* in our GitHub repository) for the *makeplural()* and *makesingular()* functions in *objnam.c*. All test cases are testing independent portions of the code, as they should, making them unique and non-redundant.

The framework is built and outputs: tested-output correctness, function being tested, it's arguments and expected output, as well as the total time elapsed on completion of the test.

```
Example test cases. All test case lines must begin with a "$". Other lines are
assumed to be comments.
Test case format is "$ functionname arg1 [...] argN expectedOutput".
First 3 examples show how greater detail surrounding each case can be achieved
as desired.
################
## makeplural tests: makeplural receives a singular word and returns its plural
counterpart ##
###############
Test case 1:
$ makeplural human humans
Base case: PASS assures basic consonant-s format sing-to-plur conversion.
Test case 2:
$ makeplural valkyrie valkyries
Base case: PASS assures basic vowel('e')-s format sing-to-plur conversion.
Test case 3:
$ makeplural man men
Badman: PASS assures basic -man to -men sing-to-plur conversion.
$ makeplural homunculus homunculi
-us to -i
$ makeplural larva larvae
-a to -ae
$ makeplural wolf wolves
-f to -ves
$ makeplural nerf nerfs
-f to -ves: avoiding nerf -> nerves
```

```
$ makeplural mycelium mycelia
-ium to -ia
$ makeplural nemesis nemeses
-sis to -ses
$ makeplural box boxes
-z, -s, -x to -zes, -ses, -xes
$ makeplural ruby rubies
-y to -ies
$ makeplural matzo matzot
-zo to -zot
$ makeplural knife knives
-fe to -ves
####################
## makesingular tests: makesingular receives a plural word and returns its
singular counterpart ##
####################
$ makesingular pigs
                     pig
$ makesingular valkyries valkyrie
$ makesingular lizardmen lizardman
$ makesingular fungi
                     fungus
$ makesingular algae
                      alga
$ makesingular wolves
                      wolf
$ makesingular balactheria balactherium
$ makesingular nemeses
                      nemesis
$ makesingular boxes
                     box
$ makesingular rubies
                      ruby
$ makesingular matzot
                     matzo
$ makesingular knives
                      knife
```