CSSE 132 – Introduction to Computer Systems Rose-Hulman Institute of Technology Computer Science and Software Engineering Department

Homework 4

When writing code, make sure you document it well with comments. This is an individual assignment.

- 1. On your Pi, update your SVN repository to find a "homework4" directory containing some files including problems.c. Complete the unfinished functions in problems.c. When you're finished, commit your solutions in problems.c to SVN. Suggestions:
 - The comments in problems.c tell you what needs to be completed.
 - Delete the TODO comments when you complete the relevant exercises.
 - Use make test to compile your homework and the tests:

```
pi@student-pi:~/1516c-csse132-student/homework4$ make test
gcc -c -o unity/unity.o -Iunity unity/unity.c
gcc -g -o test test.c problems.c unity/unity.o
pi@student-pi:~/1516c-csse132-student/homework4$
```

• Once built, run the **test** binary to test your code (the example below shows an unfinished assignment):

```
pi@student-pi:~/1516c-csse132-student/homework4$ ./test
HW4 test.c:39:test_length:FAIL: Expected 0 Was -1
HW4 test.c:48:test_lengthNoArrays:FAIL: Expected 0 Was -1
HW4 test.c:57:test_bitDropper:FAIL: Expected 8 Was -1
... testing "e" ...
HW4 test.c:75:test_upcaseVowels:FAIL: Expected 1 Was -1
HW4 test.c:105:test_skipper:FAIL: Expected Non-NULL
```

```
5 Tests 5 Failures 0 Ignored
FAIL
pi@student-pi:~/1516c-csse132-student/homework4$
```

- The tests provided in tests.c are not exhaustive. Consider adding more tests to test.c (though it is not required).
- The switch statement in C may come in handy.
