Initials \_\_\_\_\_ CSSE 132

## CSSE 132 – Introduction to Systems Programming Rose-Hulman Institute of Technology

## Exam 1 Practice Coding Part

| Name (Print):   | RHIT Username:                        |
|---|---------------------------------------|
| This part of the two-part exam is <b>closed book</b> , acceptable sources:  | but you are allowed to use only these |
| <ul> <li>Your computer</li> <li>Your assignments and labs submitted in your</li> <li>The CSSE 132 course website and things direct</li> </ul>                               | ı v                                   |
| You are not allowed to use:   |                                       |
| <ul> <li>Other Internet resources, instant messaging.</li> <li>Your smartphone, or other communication me</li> <li>Any modern integrated development environment</li> </ul> |                                       |
| Using these resources is considered academic dishon   |                                       |
| Your tasks for this coding part are described   | on the back of this page.             |
| IMPORTANT: When you are finished with this par  | t of the exam:                        |
| <ol> <li>Submit any files you created or modified to G.</li> <li>Read and sign this paper below.</li> <li>Give this paper to your instructor.</li> </ol>                    | radeScope.                            |
| I attest that all of my code for this exam is submitted exam from any source other than the acceptable source.  |                                       |
| Vous Cionatura  | Data                                  |

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## IMPORTANT: Using any functions that have not been explicitly taught in this class will result in a zero grade for the involved part(s).

**First:** Type git pull in your Git repo to fetch the exam code. Look for files in the exam1practice directory.

**Problem 1** (6 pts) In your repository, change to the exam1practice/problem1 directory. Then issue this command:

head -n 18 nappy/bawdy/data | tail -n 9 | head -n 1

Write the output:

Change to the exam1practice/problem1 directory again, and go in to keelhaul, then change to the selfish directory.

Write a *command-line expression* that, when run in the selfish directory, will print only the 10-th line of the data file.

*Hint: this command-line expression should print out* 25025

Your command-line expression:

Problem 2 (4 pts) Go to the problem2 directory. Check in the numbers.txt file for the only line that begins with 1154 (not the 1154-th line). Write the entire line in the space below.

Write the result:

**Problem 3** (45 pts) On your Linux, go to the problem3 directory.

- Complete the ARM assembly functions in problems.s Run make to compile and run make run to run the test.
- Complete the C functions in problems.c Run make to compile and run ./test to run the test.