Initials _____ CSSE 132

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

SOLUTIONS To Exam 1 Practice - Coding Part

Name (Print):	RHIT Username:
This part of the two-part exam acceptable sources:	is closed book , but you are allowed to use only these
	submitted in your individual repository for this term te and things directly linked from it
You are not allowed to use:	
 Other Internet resources, ins Your smartphone, or other of Any modern integrated deve 	
Using these resources is considered	d academic dishonesty and will result in a penalty grade.
Your tasks for this coding par	rt are described on the back of this page.
IMPORTANT: When you are finis	shed with this part of the exam:
 Add any files you created or Commit your solutions to you Push your report to the server Read and sign this paper be Give this paper to your instr 	our repo. r. elow.
· ·	is exam is submitted to my Git repository and I have not my source other than the acceptable sources listed above.
Your Signature:	Date:

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First: Use Git to pull your repository on your Linux. Look for files in the exam1practice directory. If your repository does not have this directory, immediately ask your instructor for help.

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 result: 28900

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: head -n 10 data | tail -n 1

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: 11548

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.

IMPORTANT: When you are finished with this part of the exam:

Under the problem3 directory, add any files you created or modified to Git.
(git add problems.c problems.c)
Commit your solutions to Git. (git commit -m "finish exam 1")
Push your repository to the Git server. (git push)
Double check if the push is successful. Run git logstat -1 to check 1) if the
latest commit includes correct file modification information, and 2) if the first line of
the log message includes origin/master in the parentheses

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