CSCI 3232 Systems Software Assignment 2

Upload all your files to the dropbox in Folio before the deadline --- **11:30PM Jan 22, Sunday, 2017.**

**Note: Make all your codes compilable and runnable under Ubuntu. Do not put your codes in Word or PDF documents. Make them into separate text files as you would compile them.**

1. (40 points) Which is true of the following C program?

#include <stdio.h>

int main()

{

int x=9;

int \*q=&x;

int y=x\* \*q;

printf(“square of x is %d\n”,y);

return 0;

}

a. compile error; b. runtime error; c. runs correctly and output “square of x is 81”.

2. (40 points) Write a C program A2p2.c to print out “hello world” 100 times. Be sure not to write printf 100 times. Instead, use a loop such as *for*, *while*. Include some comments at the top of your source code file that specify how you have compiled and run your code. See A2p2.c in Folio’s Sample Assignment Solutions folder.

3. (20 points) What is the output of the following C program? You should be able to write the answer without compiling and running it.

#include <stdio.h>

int main()

{

int x=9,y=4;

int q=x/y;

double dx=9.0,dy=4.0;

double dq=dx/dy;

printf(“q=%d,dq=%f\n”,q,dq);

return 0;

}

Output is “q=2,dq=2.250000”