CSC 108 Quiz # 4 Name

***Multiple Choice:***/\* 2 points each \*/

1. In this Processing statement, what does the parameter 130 refer to?

image(img1, 130, 0, 240, 120);

A) The image itself D) The height of the image

B) The width of the image E) The y-coordinate of the image

C) The x-coordinate of the image F) None of these

1. What code would cause Processing to run one frame every 2 seconds?

A) frameRate(0.5); D) frameRate(30);

B) frameRate(120); E) None of these

C) frameRate(2);

***Short Answer:***

1. The box below represents the output window for a Processing program. Draw a rectangle inside the box that shows the location, the width and the height of the image displayed by the following Processing code: /\* 7 points \*/

size( 500, 120 );

image( img1, 250, 100, 250, 20 );

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2. Describe in English what happens when the following program is executed, and the timing of what happens: /\* 7 points \*/

void draw() {

background(0);

int currentTime = millis();

stroke(255);

if ( currentTime < 2000 ) {

background( 0 );

line( 100, 100, 0, 0 );

}

else if ( currentTime < 4000 ) {

background( 0 );

line( 100, 100, width, height );

}

else if ( currentTime < 6000 ) {

background( 0 );

ellipse( 50, 50, 50, 50 );

}

}

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***Short Answer (continued):***

Fill in the blanks in this Processing code so that it flips a coin 500 times and counts how many heads and how many tails were flipped. /\* 7 points \*/

int numHeads = 0;

int numTails = 0;

for ( int flipNum = \_\_\_\_\_\_ ; \_\_\_\_\_\_\_\_\_\_\_\_\_ ; flipNum \_\_\_\_\_\_\_\_\_) {

float percentage = random( 0, 100 );

if ( percentage < \_\_\_\_\_ ) {

numHeads = numHeads + 1;

}

else {

numTails = numTails + 1;

}

}

print( “heads = “ );

println( numHeads );

print( “tails = “ );

println( numTails);