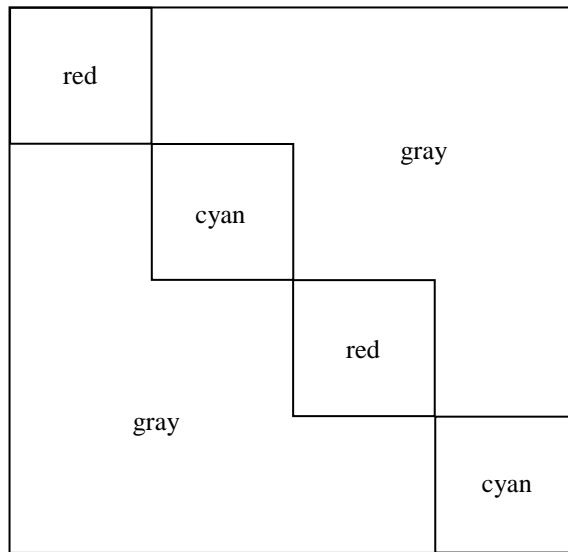# CMPS 5J   Fall 2014
Quiz 4   Solutions

1. (10 Points) Fill in the blanks in the Processing program below so that it draws the following picture.


```
color c = color(255,0,0);

void setup(){

  size(400,400);

  background(170);

}

void draw(){

  for(int i=0; i<4; i++){

    drawSquare(100*i,100*i);

  }

}

void drawSquare(int x, int y){

  fill(c);

  rect(x,y,100,100);

  c = color(255-red(c),255-green(c),255-blue(c));

}
```

(see opposite side for problem 2)

2. (10 Points) What is printed by the following Processing program? Place your answer on the lines below exactly as they would appear in the Processing message window. Note that more lines are provided below than are actually needed.

```
Bar B;
void setup(){
  B = new Bar();
  B.field1 = 5;
  B.field2 = 8;
}
void draw(){
  println( B.method1() );
  println( B.method2() );
  println( B.method3(10) );
  noLoop();  // causes draw() to execute only once
}
class Bar{
  int field1;
  int field2;
  int method1(){
    return field1+field2;
  }
  int method2(){
    return field1-field2;
  }
  int method3(int x){
    return x*field1;
  }
}
```

Program output:

13
-3
50