

4) (15) What do the following statements print?

```
for (int i=0; i<5; i++) {  
    for (int j=0; j<i; j++) {  
        println(i+j);  
    }  
    println();  
}
```

5) (10) Translate the following while loop to an equivalent for loop:

```
int n =0;  
while (n < 5) {  
    println(n);  
    n = n+1;  
}
```

6) (20) Write two loops that paint a grid over the sketch window using horizontal and vertical lines. The resolution of the grid (i.e. number of cells in each direction) should be determined by two int variables, **m** and **n**, where **m** specifies the number of rows and **n** specifies the number of columns.

7) (10) Modify your above answer to 3) to a void function named **grid** that does the same, and takes **m** and **n** as parameters. In addition, add a call to your function that will draw a grid of 50x100 covering the entire sketch.

8) (15) Modify your answer to 4) so that the same grid is drawn with one inner loop nested inside one outer loop. Hint: consider each grid cell an individual rectangle.