

Name: _____

CS 145 Images and Imagination

Exam 1 Problem 4 Makeup

Oct 14, 2010

Score (max 39): _____

(3 pts each, 39 pts total) For each loop shown on the next page, give the number of the matching picture (#1 through 13). *Note, each number is used exactly once.*

For all, assume the size and color of the window is set using *only* the following commands:

```
size(100,100);
rectMode(CORNER); // This is the default. It is included here
                  // just to make sure it is clear that this
                  // is the setting.
background(175);
```

```

___ 1. for (int i = 0; i < width; i = i+20) {
    rect(i,height/2, 10,10);
}

___ 2. for (int i = height; i > 0 ; i = i-20) {
    rect(width/2,i, 10,10);
}

___ 3. for (int i = 0; i < height/2; i = i+20) {
    rect(i,i, 10,10);
}

___ 4. for (int i = 0; i < 4; i =i+20) {
    rect(i, i, 10,10);
}

___ 5. for (int i = width; i > width ; i = i-20) {
    rect(i, 0, 10,10);
}

___ 6. for (int i = 0; i < width; i = i+20) {
    rect(0,0, i,i);
}

___ 7. for (int i = 0; i < height; i = i+10) {
    rect(i,i, 10,10);
}

___ 8. for (int i = 0; i < 4; i = i+1) {
    rect(20*i, 20*i, 10,10);
}

___ 9. for (int i = 0; i < height ; i = i-20) {
    rect(i, 0, 10,10);
}

___ 10. for (int i = 0; i < width; i = i+20) {
    for (int j=0; j < height; j = j+20) {
        rect(i,j, 10,10);
    }
}

___ 11. for (int i = 0; i < width; i = i+20) {
    for (int j=0; j < height; j = j+20) {
        if (i > height/2) {
            rect(i,j, 10,10);
        }
    }
}

```

```

___ 12. for (int i = 0; i < width; i=i+20) {
    for (int j=height/2; j < height; j=j+20) {
        rect(i,j, 10,10);
    }
}

___ 13. for (int i = 0; i < width/2; i=i+20) {
    for (int j=height/2; j < height; j=j+20) {
        rect(i,j, 10,10);
    }
}

```

