

CS 145 Images and Imagination

Loop Practice
Spring 2014

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);  
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.

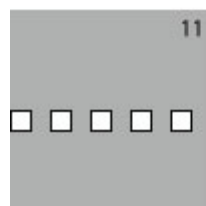
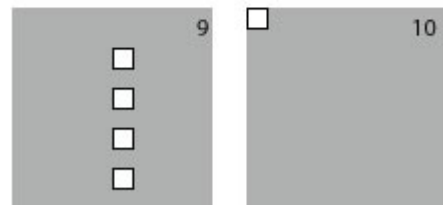
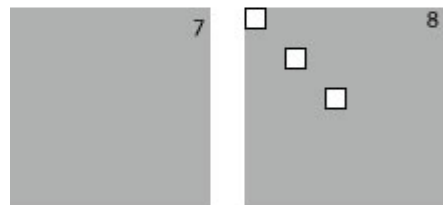
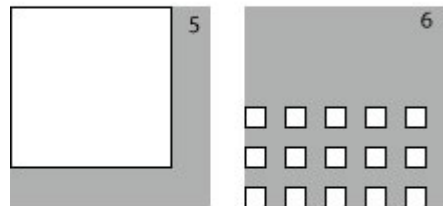
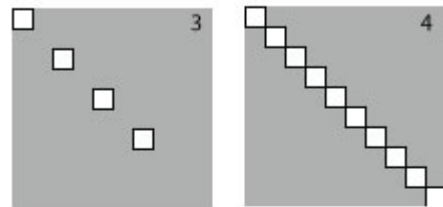
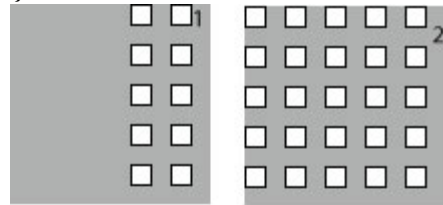
```
for (int i = 0; i < width; i = i+20) {
    for (int j=0; j < height; j = j+20) {
        rect(i,j, 10,10);
    }
}
```
- ___ 11.

```
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);
    }
}
```



12. No Image

13. Infinite Loop