

# Lab Pattern3

Create an algorithm by following the steps and filling out the blanks below.  
When you are done write the corresponding code to implement the pattern.

Pattern3:

```
○ ○ ○ ○ ○
○ ○ ○ ○ .
○ ○ ○ . .
○ ○ . . .
○ . . . .
```

Pseudo-code:

```
for each of the rows do the following:
    draw the right amount (n1) of _____
    draw the right amount (n2) of _____
    print a new line
```

We still need to figure out:

- The values for *n1* and *n2*
- how to draw *n* characters in a row

Pattern3	n1 (number of _____)	n2 (number of _____)
○ ○ ○ ○ ○ ○ ○ ○ ○ . ○ ○ ○ . . ○ ○ . . . ○ . . . .	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

Count up or down? Compare number lines in columns

Outer loop:

```
for (int i = _____; _____; _____)
{
    // TODO: draw the current rows
}
```

Pattern3	i (control variable)	n1 (number of _____)	n2 (number of _____)
○ ○ ○ ○ ○ ○ ○ ○ ○ . ○ ○ ○ . . ○ ○ . . . ○ . . . .	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

- **n1** is the same as \_\_\_\_\_
- **n2** is the same as \_\_\_\_\_

Pseudo-code refinement:

for each of the rows do the following:

```
draw _____
draw _____
print a new line
```