

# L04 - Iteration Lab - Part 1 - Nested For Loops

We can determine if a number is even or odd by checking the remainder after dividing the number by 2:

```
if (number % 2 == 0)
    System.out.println(number + " is even");
else
    System.out.println(number + " is odd");
```

1. Create a class named `Patterns` that uses this technique with two nested for loops to reproduce the pattern below. The outer for loop should control the row (0 through 7) and the inner for loop should control the column (0 through 7):

	0	1	2	3	4	5	6	7
0	X	-	X	-	X	-	X	-
1	-	X	-	X	-	X	-	X
2	X	-	X	-	X	-	X	-
3	-	X	-	X	-	X	-	X
4	X	-	X	-	X	-	X	-
5	-	X	-	X	-	X	-	X
6	X	-	X	-	X	-	X	-
7	-	X	-	X	-	X	-	X

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