

Worksheet 3

Legend:

Only in Java: ☕

Only in Python: 🐍

In both Java and Python: ☕🐍

- ☕🐍 Create an array of five strings of your choice.
- ☕ Create an array of 100 integers with value 0.
- Given the array `int[] nums = {3, 1, 4, 1, 5, 9};`:
 - What integer is at index 3?
 - How many elements are in the array?
 - ☕ Write code to print the value at index 3.
 - ☕ Write code to print the size of the array.
- Given the following multidimensional array representing a simplified chess board:

```
1  String[][] board = {
2      // Col 1      Col 2      Col 3
3      {"Knight B", "King B", "Knight B"}, // Row 1
4      {"Pawn B", "Pawn B", "Pawn B"}, // Row 2 ...
5      {"", "", ""},
6      {"Pawn W", "Pawn W", "Pawn W"},
7      {"Knight W", "King W", "Knight W"} // Row 5
8  };
```

☕ Write code to get the piece at row 4, column 2.

- Given the following strings:

☕ `String secretMessage = "asdfghjkl";`

🐍 `secret_message = "asdfghjkl"`

Write code to get the fifth character in each.

Hint: Strings indices also start at zero.

- 🐍 Print the following text exactly using **only one print statement** (do not include line numbers).

```
1  Linus's Law:
2  "given enough eyeballs, all bugs are shallow"
3  - Eric S. Raymond
```

Hint: Use escape sequences.

- ☕ Write a function that has two integer parameters and returns the sum of the two integers.
- What is wrong with the following function?

```
1  private void someFunction(boolean activate) {
2      System.out.println("State of activation: " + activate);
3      return activate;
4  }
```

- (No correct answer) Do you understand how to use classes and objects?
 - Yes
 - No
 - Maybe