

Java Arrays Part 2 Notes

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1 Enhanced For Loop

- **Syntax:** *for (DATA_TYPE ITER_VAR : ARR_VAR) {...}*
 - : Means ‘in’, like python

Example:

```
1 String[] classmates = {"Ben", "Johnny", "Pasan"};
2 for (String classmate : classmates) {
3     System.out.printf("%s is my class friend\n", classmate);
4 }
5
```

Listing 1: lesson_01/Explore.java

Notes:

- Files can be compiled and displayed by typing *javac Explore.java* && *java Explore* in terminal

2 Quiz 1

1. The reason you can use an array in an enhanced for loop is because
 - A. arrays are special. They are the only type of object you can use in an enhanced for loop.
 - B. they are contiguous.
 - C. arrays are iterable. Any object that is considered iterable can be used.

Answer: C

2. The code below can be read as:

```
1 String[] flavors = {"vanilla", "chocolate", "strawberry"};
2 for (String flavor : flavors) {
3     // ...
4 }
5
```

- A. For each flavor in the flavors array...
- B. Flavors should be reduced to a single value
- C. Once flavor is set, concatenate ...

Answer: A

3 Ye Olde Unenhanced For Loop

- **Syntax:** *for (int i = 0; i < ARR_VAR.length; i++) ...*

```
1 String[] classmates = {"Ben", "Johnny", "Pasan"};
2 for (int i = 0; i < classmates.length; i++) {
3     String classmate = classmates[i];
4     System.out.printf("%s is my class friend", classmate);
5 }
6
```

Listing 2: lesson_03/Explore.java

4 Exercise 1

- Solution included in *exercise_1.java*