

# Java Arrays Part 1 Notes

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## 1 Meet Arrays

## 2 Declaring Arrays

- **Syntax:** *DATA\_TYPE[] VAR\_NAME = new DATA\_TYPE[SIZE]*

### Example:

```
1 String[] friends = new String[3];  
2
```

- Default values
  - *byte*: 0
  - *short*: 0
  - *int*: 0
  - *long*: 0L
  - *float*: 0.0f
  - *double*: 0.0d
  - *char*: '    '
  - *String* (or any object): null
  - *boolean*: false

### 3 Quiz 1

1. Which of the following statements would create an array named planets with 9 String elements?

- A. `String planets = new Array(9);`
- B. `String[] planets = new String[9];`
- C. `Array[] planets = new String[9];`
- D. `String[] planets = new String(9);`

**Answer: B**

2. When you create a String array like this:

```
1 String[] goldenGirls = new String[4];  
2
```

What will the values be initialized to?

- A. ""
- B. null
- C. 0

**Answer: B**

### 4 Accessing Items

- **Syntax:** `ARR_VAR_NAME[INDEX]`

**Example:**

```
1 String[] friends = {"Pasan", "Johnathan", null};  
2 System.out.println(friends[0] + " is my classmate");  
3
```

## 5 Quiz 2

1. Choose the code that will retrieve the last element in the following array:

```
1 String[] goldenGirls = new String[4];
2 goldenGirls[0] = "Blanche";
3 goldenGirls[1] = "Sophia";
4 goldenGirls[2] = "Rose";
5 goldenGirls[3] = "Dorothy";
6
```

- A. `goldenGirls[goldenGirls.length - 1];`
- B. `goldenGirls[4]`
- C. `goldenGirls.getLast();`

**Answer: A**

2. What code would get the first item from this array?

```
1 String[] reminders = {"Baby", "Years"};
2
```

What will the values be initialized to?

- A. `reminders[1];`
- B. `reminders[0];`
- C. `reminders0;`

**Answer: B**

3. Considering the following code in the jShell REPL:

```
1 jshell> beatles
2 beatles ==> String[4] { "John", "Paul", "George", "Ringo" }
3
4 jshell> System.out.println(beatles[1]);
5
```

What would be printed?

- A. John
- B. Paul
- C. Ringo

**Answer: B**