

Week 5

Array Basics

1. Describe the syntax of creating an array.
2. What is an array variable actually referring to?
3. Write the statement(s) that creates a double array storing two values: 0.21 and 1.31.
4. Consider the following code:

```
public class PokemonParty {
    public static void main(String[] args) {
        String[] pokemonList;
        pokemonList[0] = "Bulbasaur";
        System.out.println(pokemonList[0]);
    }
}
```

What is printed by the above program?

5. How can the above program be made to work?

Common Array Algorithms

1. Consider the following code:

```
public class PokedexEntry {
    public static void main(String[] args) {
        String[] latios = new String[4];
        latios[0] = "Latios";
        latios[1] = "Type: Dragon/Psychic";
        latios[2] = "Species: Eon";
        latios[3] = "Description: Such fast! Much wow!";
        printData(latios);
    }

    public static void printEntry(String[] entry){
        // Print each element of array on a new line
    }
}
```

Write the code that performs the function as specified in the comment above.

2. Consider the following code:

```
public class Search {
    public static void main(String[] args) {
        int[] itemQuantities = {11, 21, 8, 10}

        System.out.println("Smallest quantity is: " + findMin(itemQuantities));
    }

    public static int findMin(int[] array){
        // Find and return smallest value in array
    }
}
```

Write the code that performs the above comment's function.

2D Arrays

1. Consider the following code:

```
public class OverworldTravel {
    public static void main(String[] args) {
        int[][] grid = new int[3][2];

        for(int i = 0; i < grid.length; i++){
            for(int j = 0; j <= grid[i].length; j++){
                System.out.print(grid[i][j]);
            }
            System.out.println();
        }
    }
}
```

What will be printed when the above program is run?

2. What should be printed if the error is fixed?