Question 2

In the context of a Pokemon battle, you are tasked with modifying the method determineWinner(String name) to ascertain the winners from each type of Pokemon when facing a specific opponent. The method should return an array with a size of 3, representing the names of Pokemon that can triumph over the specified opponent from different types.

The expected format of the array is as follows:

```
String[] winners = {Flame-type Pokemon, Grass-type Pokemon,
Water-type Pokemon};
```

However, there is a condition where no Pokemon from a particular type can defeat the opponent. In such cases, you should return the String "no Pokemon" at the specific index in the array.

Test Program

```
public class PokemonTest {
    public static void main(String[] args) {
        Pokemon moltres = new Pokemon("Moltres", "Flame",
85.0);
        Pokemon servine = new Pokemon("Servine", "Grass",
60.0);
        Pokemon charmander = new Pokemon("Charmander",
"Flame", 92.0);
        Pokemon pansage = new Pokemon("Pansage", "Grass",
55.0);
        Pokemon araquanid = new Pokemon("Araquanid", "Water",
74.0);
        Pokemon flareon = new Pokemon("Flareon", "Flame",
65.0);
        Pokemon squirtle = new Pokemon("Squirtle", "Water",
63.0);
        Pokemon wooper = new Pokemon("Wooper", "Water",
42.0);
        Pokemon[] PokemonList = {moltres, servine,
                charmander, pansage, araquanid, flareon,
squirtle,
                wooper};
        PokemonSortingSystem sortingSystem = new
PokemonSortingSystem(PokemonList);
        System.out.println("List of Pokemon after Sorting:
");
        for (Pokemon pokemon: PokemonList) {
```

```
System.out.println(pokemon);
        System.out.println();
determineWinners("Squirtle", sortingSystem.determineWinner("Sq
uirtle", PokemonList), PokemonList);
determineWinners("Charmander", sortingSystem.determineWinner("
Charmander", PokemonList), PokemonList);
determineWinners("Flareon", sortingSystem.determineWinner("Fla
reon", PokemonList), PokemonList);
    public static void determineWinners(String opponentName,
String[] winners, Pokemon[] PokemonList){
        System.out.println("Pokemon effective against " +
opponentName + ":");
System.out.printf("%15s%15s%15s\n","Flame","Grass","Water");
        for (String winner: winners) {
            System.out.printf("%15s",winner);
        System.out.println("\n");
    }
```

Sample Output

```
List of Pokemon afterSorting:
Wooper
Pansage
Servine
Squirtle
Flareon
Araquanid
Moltres
Charmander
Pokemon effective against Squirtle:
          Flame
                          Grass
                                         Water
                        Servine
     Charmender
                                     Araquanid
```

Pokemon effective against Charmander:

Flame Grass Water no Pokemon no Pokemon Araquanid

Pokemon effective against Flareon:

Flame Grass Water Charmander no Pokemon Araquanid