Name _____ Date _____ Period _____

Worksheet 4.1: 1D Array Exercises

1. Declare and initialize an array of integers so that it contains ten elements that hold the first ten perfect squares (starting with 1). Use a for loop to initialize elements of the array.

2. Write the lines of code that will traverse the array you created in number one and prints the values in a row with a space in between each element value.

3. Write code that will sum up the values in the array declared in number one.

4. Declare and initialize an array with 8 integer elements. Use the random method of the Math class to initialize the values with random integers between 1 and 50.

   Write code that will search the array and print the smallest number from #4.

Write code that will search the array and print the largest number from #4.

5. Declare and initialize an array of Strings, which will contain the names of your teachers this year (i.e. Mrs. Smith, Mr. Lowe…). Use an initializer list.

6. Write code that will swap the 2nd and 3rd elements in the array you created in number five.

7. Write code that will visit each element in the array with your teachers' names and alters them so that each element only has the last name with the "Mrs." or "Mr." or "Ms." titles removed.