

1. Declare a 1-dimensional array named **onion** that holds fifteen elements and then write a for-loop that initializes the array so that it holds the first fifteen square numbers (1, 4, 9, 16, etc.).
2. Write a for-loop that will traverse and print the elements of the **onion** array (with space between each number).
3. Write code (using a for-loop) that will calculate the sum of all the **onion** array elements.
4. Declare an array named **tomato** that holds String values of which will be the names of teachers. Use an initializer list to have the array hold the following teacher names: Mrs. Carr, Mr. Kerr, Mr. Smith, Mrs. Yi. Write a for-loop that will traverse the tomato array and look for Mr. Smith. If Mr. Smith is found, have the code output the index value of Mr. Smith (do not simply print a number, use the array's index).
5. Write the code that will traverse a 1-dimensional array named **zucchini** and count how many negative numbers are in the array.

6. Consider an array named ***asparagus*** which contains 8 integers. Write code that creates a new array called ***leek*** and then use a for-loop to copy all of the elements of the asparagus array into the leek array.

7. Write code that implements a for-loop that will count the number of elements in the asparagus array that are bigger than 25 and smaller than 50 (including 25 and 50).

8. Create an integer variable called key and initialize it to seven. Write a for-loop that traverses every element of an array named ***artichoke*** and searches the array for the key. If found, the code should output the key's index number. If not found, the code should output the number -1. You will most likely need to use two if-statements and a break statement inside the for-loop.

9. There are two arrays named ***bakedPotatoes*** and ***friedPotatoes*** that have the same number of integers in them. Write code that utilizes a for-loop to add the corresponding elements of the two arrays and store the sums into the same index position of a new array called ***mashedPotatoes*** (mashedPotatoes has already been declared).