C Pointers Activities

1. Write a function that takes in a pointer to a float. Double the value stored at the pointer and store it back at the pointer.

2. Write a function that takes in a pointer to the first element in an array of floats, an integer containing the number of elements in the array and returns a float. The function will calculate the average value in the array and return the result. Use pointer arithmetic to access the data in the array.

3. Write a function that takes in two pointers to the first elements of two different arrays and an integer containing the number of elements in the arrays. The function will swap the contents of the two arrays. Use pointer arithmetic to access the data in the arrays.