Worksheet 7

• Given an array of some kind of objects, and that has an `equals` method. Write the block of code that searches for and removes a specified element in the array, called it item, of the same type. For example if `item` is the String “Marsha” and `a` is a String of names, then your code would remove all names equal to “Marsha” from the array. Your code should do this in-place, and in one pass.

  In place means to only use the given array, and no secondary array of storage to copy into and out of. A single pass means using one for loop. Note that you will need two indices.

• Find and remove all duplicates in an array of objects, keeping the first of the duplicates. Use the above approach.

• Remove all duplicates using an algorithm that sorts them first.