##################################################################### 1. Array and Strings #####################################################################

1.1 # Implement an algorithm to determine if string has all unique chars # What if you cannot use additional data structures?

1.2 #Given two strings, decide if one is a permutation of the other.

1.3

* #  Write a method to replace all spaces in a string with '%20'
* #  Treat the string as a char array to make it challenging.
* #  Otherwise you would just use string replacement.
* #  Assume the char array has 2 spaces at the end for every one

#

space in the body, so that you dont have to resize the array.

1.4 # write function to check if string is a permutation of a palindrome # Ex. tactcoa ­> true becuase tacocat is a palindrome

1.5 # Given two strings, check if they are one or zero edits away # an edit is if strings are same if a char is removed, a char is

#

inserted, or a char is changed

1.6 # Implement a method to perform basic string compression using the # counts of repeated characters. If the "compressed" string would # not become smaller than the original string, your method should # return the original string. # Ex. "aabcccccaaa" => "a2blc5a3"

1.7 # Given an image represented by an NxN matrix, where each pixel

* #  in the image is 4 bytes, write a method to rotate the image by
* #  90 degrees. Can you do this in place?  1.8 # Write an algorithm such that if an element in an MxN matrix is 0, # its entire row and column are set to 0  1.9 # Given two strings s1 and s2, write code to check if s2 # is a rotation of s1 using only one call to isSubstring