BUBBLE SORT

class Solution {

// Function to sort the array using bubble sort algorithm.

public static void bubbleSort(int arr[]) {

int n = arr.length;

boolean swapped;

for (int i = 0; i<n-1; i++){

swapped = false;

for (int j = 0; j<n-i-1; j++){

if (arr[j]>arr[j+1]){

int temp = arr[j];

arr[j] = arr[j+1];

arr[j+1] = temp;

swapped = true;

}

}

if (swapped == false) break;

}

}

}

TC: O(N2)

SC: O(1)

NON – REPEATING CHARACTER

class Solution {

// Function to find the first non-repeating character in a string.

static char nonRepeatingChar(String s) {

int[] hashArray = new int[26]; // since only lower case letters

for (int i = 0; i<s.length(); i++){

char c = s.charAt(i);

hashArray[c-'a']++;

}

for (int i = 0; i<s.length(); i++){

char c = s.charAt(i);

if (hashArray[c-'a'] == 1) return c;

}

return '$';

}

}

TC: O(2N)

SC: O(N)