Algorithm Recognition

1. Reverse a String

def guess(s):

= char + result

return result

1. Check for Palindrome

function guess(str) {

let reversed = "";

for (let i = str.length - 1; i >= 0; i--) {

reversed += str[i];

}

return str === reversed;

}

1. Find the Maximum element

*int guess(int arr[], int size) {*

*int max = arr[0];*

*for (int i = 1; i < size; i++) {*

*if (arr[i] > max) {*

*max = arr[i];*

*}*

*}*

*return max;*

*}*

1. Count Vowels in a String

*def guess(s):*

*vowels = "aeiouAEIOU"*

*count = 0*

*for char in s:*

*if char in vowels:*

*count += 1*

*return count*

1. Find the Smallest Number in a List

function guess() {

let smallest = arr[0];

for (let i = 1; i < arr.length; i++) {

if (arr[i] < smallest) {

smallest = arr[i];

}

}

return smallest;

}

1. Determine if a Number is Positive or Negative

*void guess(int num) {*

*if (num > 0) {*

*cout << "The number is positive." << endl;*

*} else if (num < 0) {*

*cout << "The number is negative." << endl;*

*} else {*

*cout << "The number is zero." << endl;*

*}*

*}*

1. Find the Second Largest Element in an Array

*def second\_largest(arr):*

*arr = sorted(arr)*

*return arr[-2]*