function meanMedianMode(array) {

return {

mean: getMean(array),

median: getMedian(array),

mode: getMode(array)

}

}

function getMean(array) {

var sum = 0;

array.forEach(num => {

sum += num;

});

var mean = sum / array.length;

return mean;

}

function getMedian(array) {

array.sort(function(a, b){return a-b});

var median;

if (array.length % 2 !== 0) {

median = array[Math.floor(array.length / 2)];

}

else {

var mid1 = array[(array.length / 2) - 1];

var mid2 = array[array.length / 2];

median = (mid1 + mid2) / 2;

}

return median;

}

function getMode(array) {

var modeObj = {};

// create modeObj

array.forEach(num => {

if (!modeObj[num]) modeObj[num] = 0;

modeObj[num]++;

});

// create array of mode/s

var maxFrequency = 0;

var modes = [];

for (var num in modeObj) {

if (modeObj[num] > maxFrequency) {

modes = [num];

maxFrequency = modeObj[num];

}

else if (modeObj[num] === maxFrequency) modes.push(num);

}

// if every value appears same amount of times

if (modes.length === Object.keys(modeObj).length) modes = [];

return modes;

}

meanMedianMode([9,10,23,10,23,9]);