1.

const response = await fetch('data/iris.json');

const data = await response.json();

2.

let possibleColor = ["#5d3fd3","#a73fd3","#d33fb5","#d35d3f","#d3a73f"];

let irisesWithColors = data.map(iris => {

let color = possibleColor[Math.floor(Math.random() \* possibleColor.length)];

return {

...iris,

color: color

};

});

3.

let filteredIrises = irisesWithColors.filter(

function (iris) {

return iris.sepalWidth < 4;

}

);

4.

const sumPetalLength = irisesWithColors.reduce(

function (acc, iris) {

return acc + iris.petalLength;

}, 0

);

const averagePetalLength = sumPetalLength / irisesWithColors.length;

5.

const foundIris = irisesWithColors.find(function (iris) {

return iris.petalWidth > 1.0;

});

6.

const hasLongPetal = irisesWithColors.some(function (iris) {

return iris.petalLength > 10;

});

7.

const hasSpecificPetal = irisesWithColors.some(function (iris) {

return iris.petalLength === 4.2;

});

8.

const allPetalWidthsLessThan3 = irisesWithColors.every(function (iris) {

return iris.petalWidth < 3;

});

9.

const allSepalWidthsGreaterThan1\_2 = irisesWithColors.every(function (iris) {

return iris.sepalWidth > 1.2;

});

10.

const irisesWithColorsSorted = irisesWithColors.toSorted(function(a, b) {

return a.petalWidth - b.petalWidth;

});

11.