Highway 2 Code

```
let numbers = [15, 4, 68, 23, 22, 7, 15, 10, 32, 15 ];

// tähän satunnaisluvun arpova funktio
function getRndInteger(min, max) {
    return Math.floor(Math.random() * (max - min + 1) ) + min;
}

// Taulukkoharjoitukset
function t01a() {
    document.getElementById("result_a1").innerHTML = numbers;

    document.getElementById("result_a2").innerHTML = "";

    for (let i = 0; i < numbers.length; i++) {
        document.getElementById("result_a2").innerHTML += numbers[i] + " ";
    }
}

function t01b() {
    document.getElementById("result_b").innerHTML = "";

    for (let i = numbers.length - 1; i >= 0; i--) {
        document.getElementById("result_b").innerHTML += numbers[i] + " ";
    }
}

function t01c() {
    let sum = 0;

    for (let i = 0; i < numbers.length; i++) {
        sum += numbers[i];
    }

    let avg = sum / numbers.length;

    document.getElementById("result_c1").innerHTML = sum;
    document.getElementById("result_c2").innerHTML = avg;
}
```

```
function t01d() {
    let smallest = numbers[0];
    let biggest = numbers[0];

    for (let i = 0; i < numbers.length; i++) {
        if (numbers[i] < smallest) {
            smallest = numbers[i];
        }

        if (numbers[i] > biggest) {
            biggest = numbers[i];
        }
    }

    document.getElementById("result_d1").innerHTML = smallest;
    document.getElementById("result_d2").innerHTML = biggest;
}

function t01e() {
    document.getElementById("result_e").innerHTML = "";

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

    for (let i = 0; i < numbers.length; i++) {
        document.getElementById("result_e").innerHTML += numbers[i] + " ";
    }
}

function t01f() {
    numbers = new Array();

    for (let i = 0; i < 20; i++) {
        let digit = getRndInteger(1,20);
        numbers.push(digit);
    }

    t01a();
    t01b();
    t01c();
    t01d();
    t01e();
}

function t02() {
    document.getElementById("joker").innerHTML = "";

    let numbers = new Array();
    for (let i = 0; i < 7; i++) {
        let digit = getRndInteger(0,9);
        numbers.push(digit);
    }

    for (let i = 0; i < numbers.length; i++) {
        document.getElementById("joker").innerHTML += numbers[i] + " ";
    }
}
```

```
function t03() {
    let numbers = new Array();

    for (let i = 0; i < 41; i++) {
        numbers.push(0);
    }

    // lotto numbers
    let drawn_nums = 0;
    while (drawn_nums < 7) {
        let digit = getRndInteger(1,40);
        if (numbers[digit] === 0) {
            numbers[digit] = 1;
            drawn_nums++;
        }
    }

    // extra number
    drawn_nums = 0;
    while (drawn_nums < 1) {
        let digit = getRndInteger(1,40);
        if (numbers[digit] === 0) {
            numbers[digit] = 2;
            drawn_nums++;
        }
    }

    document.getElementById("lotto").innerHTML = "";
    for (let i = 1; i < numbers.length; i++) {
        if (numbers[i] === 1) {
            document.getElementById("lotto").innerHTML += i + " ";
        }
    }

    for (let i = 1; i < numbers.length; i++) {
        if (numbers[i] === 2) {
            document.getElementById("extra").innerHTML = i;
        }
    }

    // plus number
    let plus = getRndInteger(1,40);
    document.getElementById("plus").innerHTML = plus;
}

function t04() {

    let numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];

    document.getElementById("random").innerHTML = "";
    while (numbers.length > 0) {
        let i = getRndInteger(0, numbers.length - 1);
        document.getElementById("random").innerHTML += numbers[i] + " ";
        numbers.splice(i, 1);
    }
}
```