**PREDICT THE OUTPUT**

console.log("Problem #3")

function isPal(arr) {

    for(var left=0; left<arr.length/2; left++) {

        var right = arr.length-1-left;

        if(arr[left] != arr[right]) {

            return "Not a pal-indrome!";

        }

    }

    return "Pal-indrome!";

}

var result1 = isPal( [1, 1, 2, 2, 1] );

console.log(result1);

var result2 = isPal( [3, 2, 1, 1, 2, 3] );

console.log(result2);

// **DEFINITIONS**

left = 0 || left<arr.length/2 || left++

0 < 5/2 =

3 < 2.5 = YES

right= arr.length-1-left =

5-1-left

4 - left

4 - 2 = 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **INDEX** | | | | | |
| **#** | **0** | **1** | **2** | **3** | **4** |
| Elements | 1 | 1 | 2 | 2 | 1 |

Is Left Index[1] = Right Index[3]?

**Is 2 = 2 ? 🡪 yes**

if arr[left] != arr[right], then “ Not a pal-indrome! ”’

if equals, then return “ Pal-indrome! ”

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **T-DIAGRAM - MAIN** | | | | |
| **Iteration**  **#** | **Variables** | **Assigned** | **Values** | **console.log(result1)** | **End result** |
|  | left | 0 | 0 |  |  |
|  | right | arr.length-1-left | 4 |  |  |
| 2 | result1 | isPal | 1,1,2,2,1 | Palindrome |  |