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WT-3

EXPLORER

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ArrayRotation.js

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ArraySum.png

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StringReversal.js

StringReversal.png

JS

AnagramCheck.js > isAnagram

1

// Q2. ANAGRAM CHECK

2

3

function isAnagram(str1, str2) {

4

if (str1.length !== str2.length) {

5

return false;

6

}

7

let count = {}

8

for (let char of str1) {

9

count[char] = (count[char] || 0) + 1;

10

}

11

for (let char of str2) {

12

if (!count[char]) {

13

return false

14

}

15

count[char]--

16

}

17

return true

18

}

19

let str1 = "silent"

20

let str2 = "listen"

21

console.log(isAnagram(str1, str2));

22

PROBLEMS

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[Running]

node "d:\FS-24\Module-4\Weekly-Tests\WT-3\AnagramCheck.js"

true

[Done]

exited with code=0 in 0.207 seconds

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Spaces: 4

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JS

ArrayIntersection.js > ...

1

// Q3. Array Intersection

2

3

function intersectionCheck(arr, brr) {

4

let set1 = new Set(arr)

5

let set2 = new Set(brr)

6

let inter = [];

7

for (ele of set1) {

8

if (set2.has(ele)) {

9

inter.push(ele)

10

}

11

}

12

return ele

13

}

14

let arr = [1,2,3,4,5]

15

let brr = [4,5,6,7,8]

16

console.log(intersectionCheck(arr, brr))

17

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[Running] node "d:\FS-24\Module-4\Weekly-Tests\WT-3\ArrayIntersection.js"

5

[Done] exited with code=0 in 0.128 seconds

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JS

StringPalindrome.js > ...

1

// Q4. String Palindrome

2

function isPalindrome(str) {

3

function alphaNumeric(char) {

4

const lower = char.toLowerCase()

5

return (lower >= 'a' && lower <= 'z') || (lower >= '0' && lower <= '9')

6

}

7

const newArr = []

8

for (let i = 0; i < str.length; i++) {

9

if (alphaNumeric(str[i])) {

10

newArr.push(str[i].toLowerCase()) //check

11

}

12

}

13

let l = 0

14

let r = newArr.length - 1

15

while (l < r) {

16

if (newArr[l] !== newArr[r]) {

17

return false

18

}

19

l++

20

r--

21

}

22

return true

23

}

24

console.log(isPalindrome("A man, a plan, a canal: Panama"))

25

console.log(isPalindrome("Hello World"))

26

console.log(isPalindrome(".a."))

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[Running] node "d:\FS-24\Module-4\Weekly-Tests\WT-3\StringPalindrome.js"

true

false

true

[Done] exited with code=0 in 0.135 seconds

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JS

ArrayRotation.js > ...

1

// Q5. Array Rotation

2

3

function rotateArr(arr, k) {

4

if (arr.length === 0) {

5

return [];

6

}

7

// Normalize k in case it's greater than the array length

8

k = k % arr.length;

9

for (let i = 0; i < k; i++) {

10

arr.unshift(arr.pop());

11

}

12

return arr;

13

}

14

console.log(rotateArr([1, 2, 3, 4, 5], 2));

15

console.log(rotateArr([1, 2, 3, 4, 5], 4));

16

console.log(rotateArr([], 2));

17

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[Running] node "d:\FS-24\Module-4\Weekly-Tests\WT-3\ArrayRotation.js"

[ 4, 5, 1, 2, 3 ]

[ 2, 3, 4, 5, 1 ]

[]

[Done] exited with code=0 in 0.135 seconds

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StringCompression.js > compressStr

1

// Q6 String Compression

2

3

function compressStr(str) {

4

let compress = ''

5

let count = 1

6

for (let i = 0; i < str.length; i++) {

7

if (str[i] === str[i + 1]) {

8

count++

9

} else {

10

compress += str[i] + count

11

count = 1

12

}

13

}

14

if (compress.length < str.length) {

15

return compress

16

} else {

17

return str

18

}

19

}

20

let str = "aabccccaaa"

21

console.log(compressStr(str));

22

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[Running] node "d:\FS-24\Module-4\Weekly-Tests\WT-3\StringCompression.js"

a2b1c5a3

[Done] exited with code=0 in 0.133 seconds

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JS

ArraySum.js

JS

ArraySum.js

1

// Q7. Array Sum

2

3

function findPair(arr, trgt) {

4

const map = new Map();

5

for (let i = 0; i < arr.length; i++) {

6

const ele = trgt - arr[i];

7

// Check if the element exists in the map

8

if (map.has(ele)) {

9

return [ele, arr[i]];

10

}

11

// Add the current element to the map

12

map.set(arr[i], i);

13

}

14

return [];

15

}

16

console.log(findPair([1, 2, 3, 4, 5], 7));

17

console.log(findPair([1, 2, 3], 7));

18

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Code

[Running] node "d:\FS-24\Module-4\Weekly-Tests\WT-3\ArraySum.js"

[ 3, 4 ]

[]

[Done] exited with code=0 in 0.129 seconds

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OUTLINE

TIMELINE

JS

LongestSubstr.js > ...

1

// Q8. Longest Substring

2

3

function longestStr(str) {

4

    let charSet = new Set()

5

    let l = 0

6

    let maxLen = 0

7

    for (let r = 0; r < str.length; r++) {

8

        while (charSet.has(str[r])) {

9

            charSet.delete(str[l])

10

            l++

11

        }

12

        charSet.add(str[r])

13

        maxLen = Math.max(maxLen, r - l + 1)

14

    }

15

    return maxLen

16

}

17

let str = "abcabcbb"

18

console.log(longestStr(str));

19

PROBLEMS

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Code

[Running] node "d:\FS-24\Module-4\Weekly-Tests\WT-3\LongestSubstr.js"

3

[Done] exited with code=0 in 0.136 seconds

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Spaces: 4

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