Codekata Report:

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1. Problem Statement:Given 2 strings check whether they differ exacly by one character.If yes then print 'yes' otherwise print 'no'

Input Description:Input Size : |s| <= 100000(complexity O(nlogn) or O(n))

Sample Input:codekata codekate

Sample Output:yes

Completion Status: Completed

Concepts Included:

strings

loop

Language Used: JAVASCRIPT

Source Code:

```
const readline = require("readline");

const inp = readline.createInterface({
input: process.stdin
});

const userInput = [];

inp.on("line", (data) => {
userInput.push(data);
});

inp.on("close", () => {

let vp = userInput[0].split(" ")
let v = vp[0]
let p = vp[1]

if (v.length !== p.length) {
console.log("no");
} else {
```

```
let diff = 0;
for (let i = 0; i < v.length; i++) {
if (v[i] !== p[i]) {
diff++;
}
}
if (diff === 1) {
console.log("yes");
} else {
console.log("no");
}
}

});
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.041s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.061s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.059s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.059s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.043s

2. Problem Statement:Given a string, print the run-length encoded output.

Input Description:Input Size : N <= 100000

Sample Input:aaab

Sample Output:a3b1

Completion Status: Completed

Concepts Included:

strings

companies

loop

Language Used: JAVASCRIPT

Source Code:

```
const readline = require("readline");

const inp = readline.createInterface({
input: process.stdin
});

const userInput = [];

inp.on("line", (data) => {
userInput.push(data);
});

inp.on("close", () => {

let v = userInput[0].split("")

if (!v) {
console.log("");
} else {
let result = "";
let count = 1;

for (let i = 1; i < v.length; i++) {
if (v[i] === v[i - 1]) {
```

```
count++;
} else {
result += v[i - 1] + count;
count = 1;
}
}
result += v[v.length - 1] + count;

console.log(result);
}
});
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

a3b1a2

Compilation Status: Passed

Execution Time:

0.06s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

a5b2c1

Compilation Status: Passed

Execution Time:

0.057s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

a1

Compilation Status: Passed

Execution Time:

0.059s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

a1b1c1

Compilation Status: Passed

Execution Time:

0.058s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

a10

Compilation Status: Passed

Execution Time:

0.041s

3. Problem Statement:Given two strings S1 and S2,display 'yes' if given two strings are complementary otherwise display 'no'. If we join alphabets of both the strings we should get all 26 capital lette exactly once, then only we can call them as complementary.

Sample Input:ABDCFGIJKLMNOPQUVWXYZEHRST

Sample Output:yes

Completion Status: Completed

Concepts Included:

strings

companies

loop

Language Used: JAVASCRIPT

Source Code:

```
const readline = require("readline");

const inp = readline.createInterface({
input: process.stdin
});

const userInput = [];

inp.on("line", (data) => {
userInput.push(data);
});

inp.on("close", () => {

let v = userInput[0]
let p = userInput[1]
let vp = v + p

if (vp.length === 26 && new Set(vp).size === 26) {
console.log("yes")
}
else {
console.log("no")
}

});
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.043s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.057s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.042s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

yes

Compilation Status: Passed

Execution Time:

0.041s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

no

Compilation Status: Passed

Execution Time:

0.057s