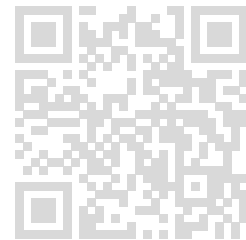


# Codekata Report:



**Name:** Paramesh Kumar S

**Email:** svpparameshkumar2004@gmail.com

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

Input Description: Input Size :  $|s| \leq 100000$  (complexity  $O(n \log n)$  or  $O(n)$ )

Sample Input: codekata codekate

Sample Output: yes

**Completion Status:** Completed

**Concepts Included:**

strings

loop

**Language Used:** PYTHON 3

**Source Code:**

```
v, p = input().split()
```

```
if len(v) != len(p):
```

```
    print("no")
```

```
else:
```

```
    diff = 0
```

```
    for a, b in zip(v, p):
```

```
        if a != b:
```

```
            diff += 1
```

```
if diff == 1:
```

```
    print("yes")
```

```
else:
```

```
    print("no")
```

**Compilation Details:**

**TestCase1:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

yes

**Compilation Status:** Passed

**Execution Time:**

0.013s

**TestCase2:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

no

**Compilation Status:** Passed

**Execution Time:**

0.015s

**TestCase3:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

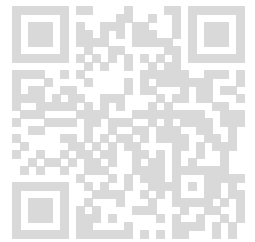
no

**Compilation Status:** Passed

**Execution Time:**

0.015s

**TestCase4:**



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**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

no

**Compilation Status:** Passed

**Execution Time:**

0.013s

**TestCase5:****Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

no

**Compilation Status:** Passed

**Execution Time:**

0.01s

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

Input Description: Input Size :  $N \leq 100000$

Sample Input: aaab

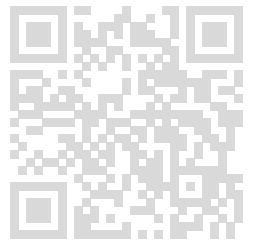
Sample Output: a3b1

**Completion Status:** Completed

**Concepts Included:**

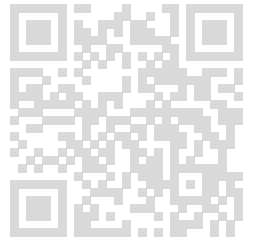
strings

companies



loop

**Language Used:** PYTHON 3



**Source Code:**

```
v = input().strip()
if not v:
    print("")
else:
    result = ""
    count = 1
    for i in range(1, len(v)):
        if v[i] == v[i-1]:
            count += 1
        else:
            result += v[i-1] + str(count)
            count = 1
    result += v[-1] + str(count)
    print(result)
```

**Compilation Details:**

**TestCase1:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

a3b1a2

**Compilation Status:** Passed

**Execution Time:**

0.009s

**TestCase2:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

a5b2c1

**Compilation Status:** Passed

**Execution Time:**

0.014s

**TestCase3:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

a1

**Compilation Status:** Passed

**Execution Time:**

0.01s

**TestCase4:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

a1b1c1

**Compilation Status:** Passed

**Execution Time:**

0.014s

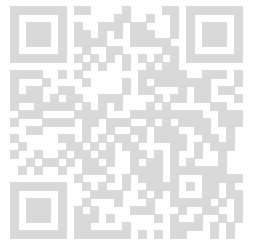
**TestCase5:**

**Input:**

< hidden >

**Expected Output:**

< hidden >



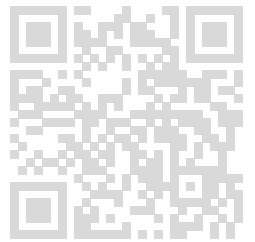
Paramesh Kumar S (sypparameshkumar2004@gmail.com)

**Output:**

a10

**Compilation Status:** Passed**Execution Time:**

0.013s



**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 letters exactly once, then only we can call them as complementary.

Sample Input: ABDCFGIJKLMNOPQUVWXYZEHRT

Sample Output: yes

**Completion Status:** Completed**Concepts Included:**

strings

companies

loop

**Language Used:** PYTHON 3**Source Code:**

```
v = input().strip()
p = input().strip()

vp = v + p

if len(vp) == 26 and len(set(vp)) == 26:
    print("yes")

else:
    print("no")
```

**Compilation Details:****TestCase1:**

**Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

no

**Compilation Status:** Passed

**Execution Time:**

0.01s

**TestCase2:****Input:**

< hidden >

**Expected Output:**

< hidden >

**Output:**

yes

**Compilation Status:** Passed

**Execution Time:**

0.01s

**TestCase3:****Input:**

< hidden >

**Expected Output:**

< hidden >

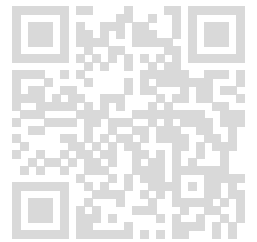
**Output:**

no

**Compilation Status:** Passed

**Execution Time:**

0.013s



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#### TestCase4:

##### Input:

< hidden >

##### Expected Output:

< hidden >

##### Output:

yes

**Compilation Status:** Passed

##### Execution Time:

0.014s

#### TestCase5:

##### Input:

< hidden >

##### Expected Output:

< hidden >

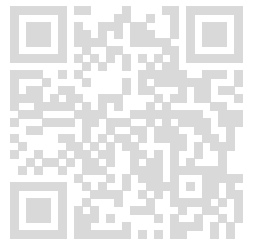
##### Output:

no

**Compilation Status:** Passed

##### Execution Time:

0.01s



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