

```
s = 'bbbbccttttabb'
j = 0
s1 = ''
count = 0
for i in range(j,len(s)):
    if s[i] != s[j]:
        a = str(count)
        s1 = s1+s[j]+a
        j = j + count
        count = 1
    elif i == len(s)-1:
        count = len(s) - j
        a = str(count)
        s1 = s1 + s[j] + a
    else:
        count = count + 1
else:
    print(s1)
```

b4c2t4a1b2

```
s = 'bbbbccttttabb'
search_char = s[0]
count = 0
for i in s:
    if search_char == i:
        count = count + 1
    else:
        print(search_char,count,sep='',end='')
        search_char = i
        count = 1
else:
    print(search_char,count,sep='',end='')
```

b4c2t4a1b2

```
s = 'bbbbccttttabb'
search_char = None
count = 0
flag = True
for i in s:
    if flag == True:
        search_char = i # to initialize search_char
        flag = False

    if search_char == i:
        count = count + 1
    else:
```

```

    print(search_char,count,sep=' ',end=' ')
    search_char = i
    count = 1
else:
    print(search_char,count,sep=' ',end=' ')
    b4c2t4a1b2

s = 'bbbbccttttabb'
prev_index = 0
for index,value in enumerate(s):
    if s[prev_index] == value:
        continue
    else:
        print(s[prev_index],index-prev_index,sep=' ',end=' ')
        prev_index = index
else:
    index = index + 1
    print(s[prev_index],index-prev_index,sep=' ',end=' ')
    b4c2t4a1b2

for i in range(5):
    print(1,end=' ')
    1 1 1 1 1

for i in range(5):
    print(1,end=' ')
print()
for i in range(5):
    print(1,end=' ')
    1 1 1 1 1
    1 1 1 1 1

for i in range(5):
    print(1,end=' ')
print()
for i in range(5):
    print(1,end=' ')
print()
for i in range(5):
    print(1,end=' ')
    1 1 1 1 1
    1 1 1 1 1
    1 1 1 1 1

for j in range(4): # rows
    for i in range(5): # columns
        print(1,end=' ')
    print()

```

```

1 1 1 1 1
1 1 1 1 1
1 1 1 1 1
1 1 1 1 1

```

```

rows = 3
cols = 5
for row in range(rows):
    for col in range(cols):
        print('*',end=' ')
    print() # next row

```

```

* * * * *
* * * * *
* * * * *

```

```

'''
0 0 0 0 0
1 1 1 1 1
2 2 2 2 2
'''

```

```

rows = 3
cols = 5
for row in range(rows):
    for col in range(cols):
        print(row,end=' ')
    print()

```

```

0 0 0 0 0
1 1 1 1 1
2 2 2 2 2

```

```

'''
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
'''

```

```

rows = 4
cols = 5
for row in range(rows):
    for col in range(cols):
        print(col,end=' ')
    print()

```

```

0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4

```

```

'''
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
0 1 2 3 4
'''

```

```
'''
```

```
rows = int(input('Please enter rows count : '))
cols = int(input('Please enter columns count : '))
for row in range(rows):
    for col in range(cols):
        print(col,end=' ')
    print()
Please enter rows count : 3
Please enter columns count : 3
0 1 2
0 1 2
0 1 2
```

```
'''
```

```
1 2 3
4 5 6
7 8 9
'''
for i in range(1,10):
    print(i,end=' ')
    if i % 3 == 0:
        print()
1 2 3
4 5 6
7 8 9
```

```
rows = 3
cols = 2
count = 1
for row in range(rows):
    for col in range(cols):
        print(count,end=' ')
        count = count + 1
    print()
1 2
3 4
5 6
```

```
'''
```

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
'''
```

```
rows = 5
cols = 5
for row in range(rows):
    for col in range(cols):
        print('*',end=' ')
    print()
```

```

* * * * *
* * * * *
* * * * *
* * * * *
* * * * *

```

```

'''

```

```

0 * * * *
* 0 * * *
* * 0 * *
* * * 0 *
* * * * 0
'''

```

```

rows = 5
cols = 5
for row in range(rows):
    for col in range(cols):
        if row == col:
            print(0,end=' ')
        else:
            print('*',end=' ')
    print()

```

```

0 * * * *
* 0 * * *
* * 0 * *
* * * 0 *
* * * * 0

```

✓ 0s completed at 1:43 PM

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