

Experiment 04 - Exercise 04: Substring Occurrence Count

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Objective

Enter a string and a substring. Print the number of times the substring occurs in the given string. Traversal should be from left to right.

Input

- Main string `text`
- Substring `sub`

Output

Number of occurrences.

Approach

To support **overlapping** occurrences, check every starting position i :

```
for i in range(0, len(text) - len(sub) + 1):  
    if text[i:i+len(sub)] == sub:  
        count += 1
```

Time Complexity

$O(n \cdot m)$ where n is length of text and m is length of substring.