75. Brute-Force String Matching

<u>Code:</u>

```python
def brute_force_string_match(text, pattern):
    n = len(text)
    m = len(pattern)
    for i in range(n - m + 1):
        j = 0
        while j < m and text[i + j] == pattern[j]:
            j += 1
        if j == m:
            return i
    return -1
text = "AABAACAADAABAABA"
pattern = "AABA"
result = brute_force_string_match(text, pattern)
if result != -1:
    print(f"Pattern found at index {result}")
else:
    print("Pattern not found in the text")
```

<u>Output:</u>

```
Pattern found at index 0
```

<u>Time Complexity:</u>

- $T(n) = O(n*m)$