```
def interleave_strings(word1, word2):
    result = "".join(a + b for a, b in zip(word1, word2))
    result += word1[len(word2):] + word2[len(word1):]
    return result

word1 = "abc"
word2 = "pqr"
output = interleave_strings(word1, word2)
print(output)
```

```
apbqcr
```

```
def interleave_strings(word1, word2):
    result = "".join(a + b for a, b in zip(word1, word2))
    result += word2[len(word1):] + word1[len(word2):]
    return result

word1 = "ab"
word2 = "pqrs"
output = interleave_strings(word1, word2)
print(output)
```

```
apbqrs
```

```
def interleave_strings(word1, word2):
    result = "".join(a + b for a, b in zip(word1, word2))
    result += word1[len(word2):] + word2[len(word1):]
    return result

word1 = "abcd"
word2 = "pq"
output = interleave_strings(word1, word2)
print(output)
```

```
apbqcd
```

```
import math

def find_common_substring(str1, str2):
    if str1[:len(str2)] == str2:
        return str2
    return ""

str1 = "ABCABC"
str2 = "ABC"
output = find_common_substring(str1, str2)
print(output)
```

```
ABC
```

```
import math

def gcd_of_strings(str1, str2):
    def gcd(a, b):
        while b:
            a, b = b, a % b
        return a

    gcd_length = gcd(len(str1), len(str2))
    return str1[:gcd_length]

str1 = "ABABAB"
str2 = "ABAB"
output = gcd_of_strings(str1, str2)
print(output)
```

```
AB
```

```
def common_prefix(str1, str2):
    min_length = min(len(str1), len(str2))
    result = ""
    for i in range(min_length):
        if str1[i] == str2[i]:
            result += str1[i]
        else:
            break
    return result
```

```
str1 = "LEET"
str2 = "CODE"
output = common_prefix(str1, str2)
print(output)
```