Comprehensive Python String Practice Questions & Answers

1. Reverse a string

```
def reverse_string(s):

    return s[::-1]
```

2. Check if a string is a palindrome

```
def is_palindrome(s):

    return s == s[::-1]
```

3. Count vowels and consonants

```
def count_vowels_consonants(s):

    vowels = 'aeiouAEIOU'

    v = sum(1 for c in s if c in vowels)

    c = sum(1 for c in s if c.isalpha() and c not in vowels)

    return v, c
```

4. Count occurrences of a character

```
def count_char(s, ch):

    return s.count(ch)
```

5. Replace a substring

```
def replace_substring(s, old, new):

    return s.replace(old, new)
```

6. Remove all spaces

```
def remove_spaces(s):

    return s.replace(' ', '')
```

7. First non-repeating character

```python
from collections import Counter


def first_unique_char(s):

    count = Counter(s)

    for c in s:

        if count[c] == 1:

            return c

    return None
```

8. Duplicate characters

```python
from collections import Counter


def find_duplicates(s):

    return [c for c, count in Counter(s).items() if count > 1]
```

9. Swap case

```python
def swap_case(s):

    return s.swapcase()
```

10. Check anagrams

```python
from collections import Counter


def are_anagrams(s1, s2):

    return Counter(s1) == Counter(s2)
```