

# UST Python Fresher Technical Interview - Common Coding Questions

## 1. Reverse a String

```
def reverse_string(s):  
    return s[::-1]
```

## 2. Palindrome Check

```
def is_palindrome(s):  
    return s == s[::-1]
```

## 3. Count Vowels in a String

```
def count_vowels(s):  
    vowels = "aeiouAEIOU"  
    return sum(1 for char in s if char in vowels)
```

## 4. Remove Duplicates from List

```
def remove_duplicates(lst):  
    return list(set(lst))
```

## 5. Fibonacci Series

```
def fibonacci(n):  
    a, b = 0, 1  
    for _ in range(n):  
        print(a, end=" ")  
        a, b = b, a + b
```

## 6. Factorial (Recursive)

```
def factorial(n):  
    if n == 0:  
        return 1  
    else:  
        return n * factorial(n - 1)
```

## 7. Prime Number Check

```
def is_prime(n):  
    if n < 2:  
        return False  
    for i in range(2, int(n**0.5)+1):  
        if n % i == 0:  
            return False  
    return True
```

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## 8. Sum of Digits

```
def sum_of_digits(n):  
    return sum(int(digit) for digit in str(n))
```

## 9. Sort a List Without Using sort()

```
def sort_list(lst):  
    for i in range(len(lst)):  
        for j in range(i+1, len(lst)):  
            if lst[i] > lst[j]:  
                lst[i], lst[j] = lst[j], lst[i]  
    return lst
```

## 10. Maximum Frequency Character

```
from collections import Counter  
  
def max_freq_char(s):  
    count = Counter(s)  
    return count.most_common(1)[0][0]
```