

7. Write a program to print the reverse of a string using recursion

**Code:**

```
def reverse_string_recursive(s):  
    if len(s) == 0:  
        return s  
    return s[-1] + reverse_string_recursive(s[:-1])  
  
source_string = input("Enter the string to be reversed: ")  
reversed_string = reverse_string_recursive(source_string)  
print(f"Reversed string: {reversed_string}")
```

**Output:**

```
Enter the string to be reversed: hello  
Reversed string: olleh  
|
```

**Time Complexity:**

- $T(n) = O(n^2)$