Assignment -07

1. 541. Reverse String II

Given a string s and an integer k, reverse the first k characters for every 2k characters counting from the start of the string.

```cpp
//Time Complexity: O(n)

//Space Complexity: O(1)

class Solution {

public:

    string reverseStr(string s, int k) {

        int l=0;

        int e=s.size();

        int r=min(e,l+k);

        while(l<e)

        {

            reverse(s.begin()+l,s.begin()+r);

            l=l+2*k;

            r=min(e,l+k);

        }

        return s;


    }

};
```

2. 557. Reverse Words in a String III

   Given a string s, reverse the order of characters in each word within a sentence while still preserving whitespace and initial word order.

```cpp
//Time Complexity: O(n)

//Space Complexity: O(1)

class Solution {

public:

    string reverseWords(string s) {

        int l=0;

        int r=0;

        while(l<s.size())

        {

            while(r<s.size() && s[r] !=' ')

            {

                r++;

            }

            reverse(s.begin()+l,s.begin()+r);

            l=r+1;

            r=l;

        }

        return s;


    }

};
```