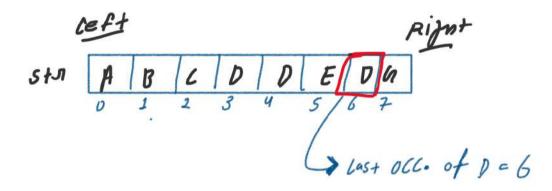


1. Last Occurrence of a char

Example 1:

Input: str = "abcddedg" and target = 'd'

Output: Last Occurrence of d: 6

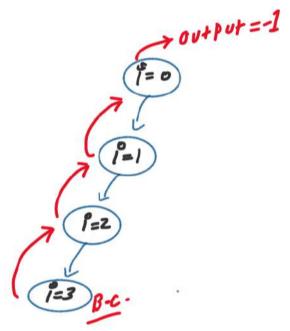


Approaches:

1. Search from Left to right using recursion

Let stor= 11 9601 tanget = 121 output = -1

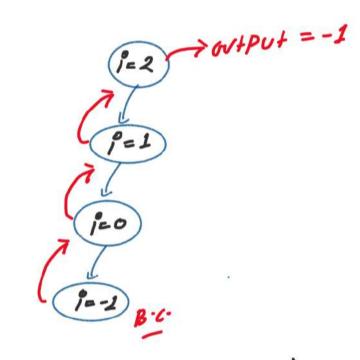
N=3



Time and space computity

= (n+1) => O(N)

2. Search from right to left using recursion



Time and space complexity

= (n+1) => O(N)

```
. .
#include <string.h>
using namespace std;
void solveUsingRECLtR(string &str, char &target, int &ans, int index){
   if(index >= str.size()){
   if(str[index] == target){
   solveUsingRECLtR(str, target, ans, index + 1);
int main(){
    cout << "Enter input string: ";</pre>
   cout << "Enter input target: ";</pre>
   char target ;
   cin >> target;
    cout << "Last Occurrence of " << target << ": ";</pre>
    solveUsingRECLtR(str, target, ans, str.size()-1);
    cout << ans << endl;
```

```
. .
using namespace std;
void solveUsingRECRtL(string &str, char &target, int &ans, int index){
    if(index < 0){
    if(str[index] == target){
    solveUsingRECRtL(str, target, ans, index - 1);
int main(){
    cout << "Enter input string: ";</pre>
    string str;
    cout << "Enter input target: ";</pre>
    char target ;
    cin >> target;
    cout << "Last Occurrence of " << target << ": ";</pre>
    solveUsingRECRtL(str, target, ans, str.size()-1);
```