

[953 Reverse Only Letters \(link\)](#)

Description

Given a string s , reverse the string according to the following rules:

- All the characters that are not English letters remain in the same position.
- All the English letters (lowercase or uppercase) should be reversed.

Return s *after reversing it*.

Example 1:

```
Input: s = "ab-cd"  
Output: "dc-ba"
```

Example 2:

```
Input: s = "a-bC-dEf-ghIj"  
Output: "j-Ih-gfE-dCba"
```

Example 3:

```
Input: s = "Test1ng-Leet=code-Q!"  
Output: "Qedo1ct-eeLg=ntse-T!"
```

Constraints:

- $1 \leq s.length \leq 100$
- s consists of characters with ASCII values in the range $[33, 122]$.
- s does not contain `'\"'` or `'\\'`.

(scroll down for solution)

Solution

Language: *cpp*

Status: Accepted

```
#include <string>
using namespace std;

class Solution {
public:
    string reverseOnlyLetters(string s) {
        int left = 0, right = s.length() - 1;

        while (left < right) {
            if (!isalpha(s[left])) {
                left++;
            } else if (!isalpha(s[right])) {
                right--;
            } else {
                swap(s[left], s[right]);
                left++;
                right--;
            }
        }

        return s;
    }
};
```