

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.

Print s after reversing it.

NOTE:- After answering the question, attempt the related question in the linked resource to improve your understanding of the question . Question Link -> <https://leetcode.com/problems/reverse-only-letters>

Input Format

A String

Constraints

- 1 <= s.length <= 10^5
- s consists of characters with ASCII values in the range [33, 122].
- s does not contain "\" or \"'

Output Format

A String

Sample Input 0

a-bC-dEf-ghIj

Sample Output 0

j-Ih-gfE-dCbA

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         String str = sc.nextLine();
9
10        char ch [] = new char[str.length()];
11
12        for(int i=0;i<ch.length;i++)ch[i]=str.charAt(i);
13
14        int i=0,j=str.length()-1;
15
16        while(i<j){
17            if(!Character.isLetter(ch[i]))i++;
18            else if (!Character.isLetter(ch[j]))j--;
19            else{
20                char temp = ch[i];
21                ch[i]=ch[j];
22                ch[j]=temp;
23                i++;
24                j--;
25            }
26        }
27        String ans="";
28        for(int k=0;k<ch.length;k++)ans+=ch[k];
29
30        System.out.print(ans);
31    }
32 }
```

```
Language: Java 15
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         String str = sc.nextLine();
9
10        char ch [] = new char[str.length()];
11
12        for(int i=0;i<ch.length;i++)ch[i]=str.charAt(i);
13
14        int i=0,j=str.length()-1;
15
16        while(i<j){
17            if(!((ch[i]>='A' && ch[i]<='Z') || (ch[i]>='a' && ch[i]<='z'))i++;
18            else if (!((ch[j]>='A' && ch[j]<='Z') || (ch[j]>='a' && ch[j]<='z'))j--;
19            else{
20                char temp = ch[i];
21                ch[i]=ch[j];
22                ch[j]=temp;
23                i++;
24                j--;
25            }
26        }
27        String ans="";
28        for(int k=0;k<ch.length;k++)ans+=ch[k];
29
30        System.out.print(ans);
31    }
32 }
```

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

Input Format

string str as an input.

Constraints

1 <= str.length <= 10^4

Output Format

return the desired string.

Sample Input 0

Let's take LeetCode contest
s'teL, ekat edoCteeL tsetnoc

Sample Output 0

s'teL ekat edoCteeL tsetnoc Let's take
s'teL

```
finalAns="" , tempAns=" ";
for ( )
    ch = str.charAt(i);
    if (ch != ' ')
        tempAns += ch;
    else
        finalAns += tempAns + " ";
        tempAns = " ";
}
```

Submitted Code

Language: Java 15

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8
9         String str = sc.nextLine();
10
11         String finalAns="", tempAns="";
12
13         for(int i=0;i<str.length();i++){
14             char ch = str.charAt(i);
15
16             if(ch!=' '){
17                 tempAns=ch+tempAns;
18             }else{
19                 finalAns+=tempAns+" ";
20                 tempAns="";
21             }
22         }
23         finalAns+=tempAns;
24         System.out.print(finalAns);
25     }
26 }
```