

```

public static String reverse(String str){
    char ch[] = str.toCharArray();

    int left = 0;
    int right = str.length() - 1;

    while(left < right){
        if(!Character.isLetter(ch[left])){
            left++;
        }
        else if(!Character.isLetter(ch[right])){
            right--;
        }
        else{
            char temp = ch[left];
            ch[left] = ch[right];
            ch[right] = temp;
            left++;
            right--;
        }
    }

    // modify the char array to string
    return new String(ch);
}

```

a-bC-dEf-ghIj

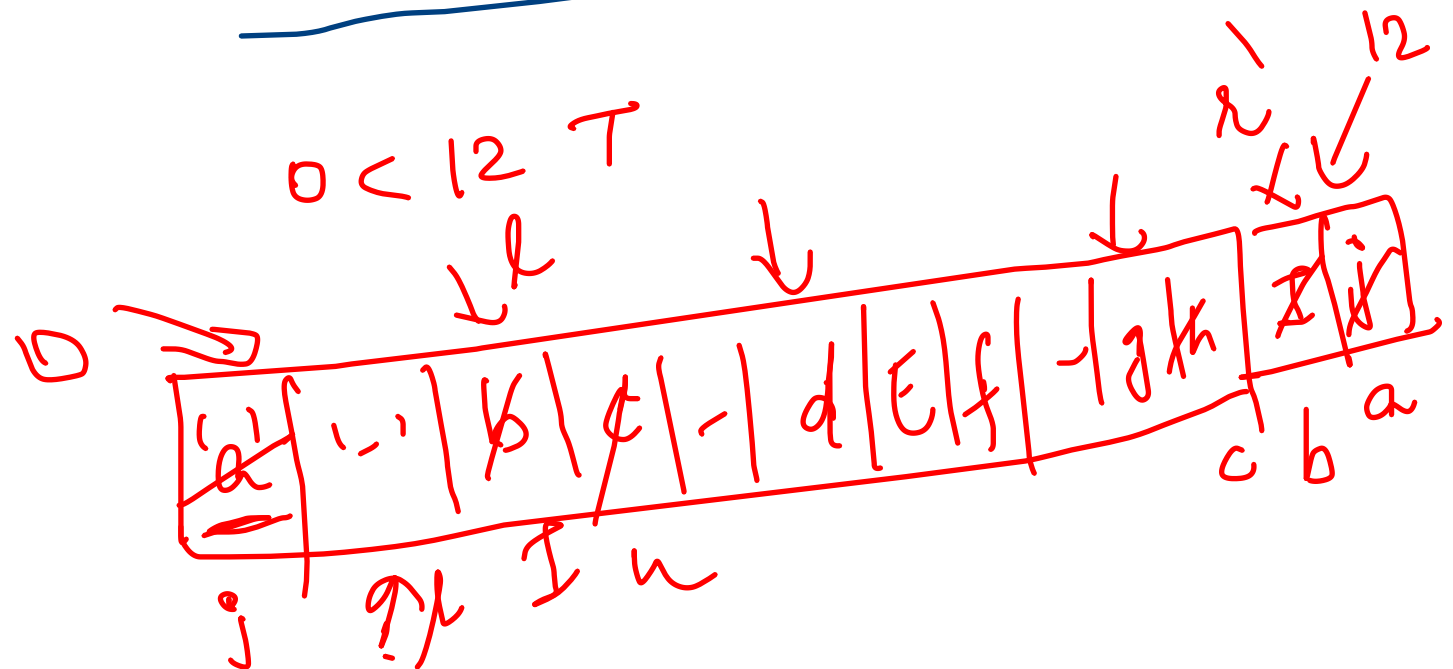
 0 1 2 3 4 5 6 7 8 9 10 11 12

" " → String

l → Integer

ch → Character

$O(n)$ — TC
 — SC



HW_reverse by words

```
public static String reverseWords(String str){  
    String words[] = str.split(" ");  
    String result = "";  
  
    for(int i = 0; i < words.length; i++){  
        String ch = words[i];  
        result += reverseString(ch) + " ";  
    }  
  
    return result.trim();  
}
```

```
public static String reverseString(String word){  
    char ch[] = word.toCharArray();  
  
    int left = 0;  
    int right = word.length() - 1;  
  
    while(left < right){  
        // swap  
        char temp = ch[left];  
        ch[left] = ch[right];  
        ch[right] = temp;  
  
        left++;  
        right--;  
    }  
    return new String(ch);  
}
```

$O(n)$ — TC / SC