REVERSE ALL WORDS IN A STRING

✳ In this problem, we are given a string with/without multiple words and we are supposed to return a string with sequence of words reversed.

To solve this question, we will first reverse the entire string, then we mark the start and end of each word and then reverse it. This way, the order of each word is reversed. Pointers left and right are used to mark start and end of each String.

Pseudocode :

```
reverseWords(str, N) {
    reverse(str)
    left, i, right = 0, 0, 0
    while(i < N) {
        while(i < N && str[i] == " ") {
            i++
        }
        if(i == N) {
            break
        }
        while(i < N && str[i] != " ") {
            str[right] = str[i]
            right += 1
```

```
            i += 1
        }
        reverse(str, left, right)
        str[right] = ' '
        right += 1
        left = right
        i++
    }
    str.resize(right - 1)
    return str
}
```

First inner while loop is to get past whitespace and resizing is to remove them once and for all.