```
public static String leaveShortest(String sentence) {
21⊖
         //Turn the string into array, split by white space
22
23
                                                                 where n is the length, k is the number of space
         24
                                                                 separators
         String newString = "";
25
         loop runs for array.length() / 3 times as the
26
                                                                 algorithm divide the array in group of 3 elements.
            27
            if (arr[i].length() > arr[i+1].length()) { • • • • • • 2n/3
                                                                 Assignments on both sides
28
                                                                 Assignments on both sides
               temp = arr[i+1];
                              •••••• 2n/3
29
30
            if (temp.length() > arr[i+2].length()) { • • • • • • • 2n/3
                                                                 Assignments on both sides
31
               temp = arr[i+2]; 2n/3
                                                                 Assignments on both sides
32
            }
33
            newString += (temp+" "); ••••••• 2n/3
                                                                 Assignments on both sides
34
35
         return newString.substring(0, newString.length()-1); • • • 1
36
                                                                 return statement will run only once
     }
37
                                                       Total:
                                                       4n+2 \sim O(n)
```