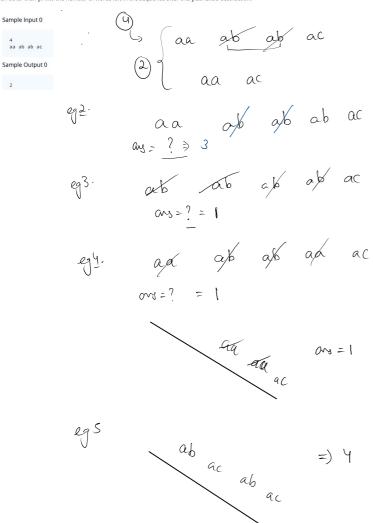
Delete consecutive

Given a sequence of N strings, the task is to check if any two similar words come together then they destroy each other than print the number of words left in the sequence after this pairwise destruction.



aa ab ac $\alpha \subset$ acaa ab 20 ab

```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
 9
           Stack<String> st = new Stack<>();
           for(int i = 0; i < n; i++){
               String s = scn.next();
               if(st.size() != 0 && s.equals(st.peek())){
14
                   st.pop();
               }else{
16
                   st.push(s);
18
19
           System.out.println(st.size());
21 }
```

```
first or st. empty -> push

if courrele == peck -> pop

else push
```

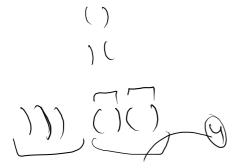
is fine good at ok Reverse Words in a Given String Sample Input 0 reverse words in a given string OK - at - 9000 - fine 35 - 17 fmp - is tmp = "is -fine - good - at - ok (ct.size ())=0 tmp += (1 " + st.pop ()

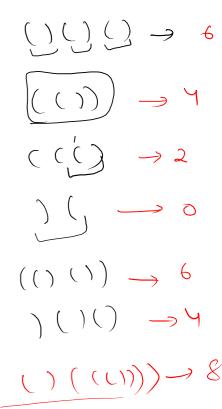
```
game _ is _ on
 1 vimport java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
 6 *
 7
           Scanner scn = new Scanner(System.in);
 8
           String s = scn.nextLine();
           Stack<String> st = new Stack<>();
 9
10
           String tmp = "";
11
           for(int i = 0; i < s.length(); i++){
12 +
13
               char ch = s.charAt(i);
               if(ch != ' '){
14 *
                   tmp += ch;
15
16 *
               }else{
                   st.push(tmp);
17
                   tmp = "";
18
20
21
           //remove
22 •
           while(st.size() != 0){
23
               tmp += " " + st.pop();
24
25
26
27
           System.out.println(tmp);
28
29 }
```

Longest Valid Parentheses 4

Problem Submissions Leaderboard Discussions

Given a string containing just the characters '(' and ')', return the length of the longest valid (well-formed) parentheses substring.





$$S \rightarrow (())(())$$

$$S = (()) \rightarrow \text{push}$$

$$S = (()) \rightarrow \text{push}$$

$$S = (()) \rightarrow \text{remove}$$

$$S = (()) \rightarrow \text{remove}$$

$$S = (()) \rightarrow \text{remove}$$



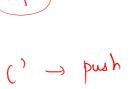


len=2

len = 4

len 22

len = i - peex



```
class Solution {
 1 *
 2 *
          public int longestValidParentheses(String s) {
 3
               Stack<Integer> st = new Stack<>();
 4
               st.push(-1);
 5
               int ans = 0;
 6
               int n = s.length();
 7 -
               for(int i = 0; i < n; i++){
 8
                   char ch = s.charAt(i);
 9 *
                   if(ch == '('){
10
                       st.push(i);
11 ▼
                   }else{
12
                       //remove and find len
13
                       st.pop();
14 ▼
                       if(st.size() == 0){
15
                           st.push(i);
16 *
                       }else{
17
                           int len = i - st.peek();
18
                           ans = Math.max(ans, len);
19
20
                   }
21
22
               return ans;
23
24
```