



Java Regex 2 - Duplicate Words

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Problem

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In this challenge, we use regular expressions (RegEx) to remove instances of words that are repeated more than once, but retain the *first occurrence* of any case-insensitive repeated word. For example, the words `love` and `to` are repeated in the sentence `I love Love to To tO code`. Can you complete the code in the editor so it will turn `I love Love to To tO code` into `I love to code`?

To solve this challenge, complete the following three lines:

1. Write a RegEx that will match any repeated word.
2. Complete the second *compile* argument so that the compiled RegEx is case-insensitive.
3. Write the two necessary arguments for *replaceAll* such that each repeated word is replaced with the very first instance the word found in the sentence. It must be the *exact* first occurrence of the word, as the expected output is case-sensitive.

Note: This challenge uses a custom checker; you will fail the challenge if you modify anything other than the three locations that the comments direct you to complete. To restore the editor's original stub code, create a new buffer by clicking on the branch icon in the top left of the editor.

Input Format

The following input is handled for you the given stub code:

The first line contains an integer, *n*, denoting the number of sentences.

Each of the *n* subsequent lines contains a single sentence consisting of English alphabetic letters and whitespace characters.

Constraints

- Each sentence consists of *at most* 10^4 English alphabetic letters and whitespaces.
- $1 \leq n \leq 100$

Output Format

Stub code in the editor prints the sentence modified by the *replaceAll* line to stdout. The modified string must be a modified version of the initial sentence where all repeat occurrences of each word are removed.

Sample Input

```
5
Goodbye bye bye world world world
Sam went went to to to his business
Reya is is the the best player in eye eye game
in inthe
Hello hello Ab aB
```

Sample Output

```
Goodbye bye world
Sam went to his business
Reya is the best player in eye game
in inthe
Hello Ab
```

Explanation

1. We remove the second occurrence of `bye` and the second and third occurrences of `world` from `Goodbye bye bye world world world` to get `Goodbye bye world`.
2. We remove the second occurrence of `went` and the second and third occurrences of `to` from `Sam went went to to to his business to get Sam went to his business`.
3. We remove the second occurrence of `is`, the second occurrence of `the`, and the second occurrence of `eye` from `Reya is is the the best player in eye eye game` to get `Reya is the best player in eye game`.
4. The sentence `in inthe` has no repeated words, so we do not modify it.
5. We remove the second occurrence of `ab` from `Hello hello Ab aB` to get `Hello Ab`. It's important to note that our matching is *case-insensitive*, and we specifically retained the *first occurrence* of the matched word in our final string.

f t in

Solved score: 12.50pts

Submissions: [14446](#)



Max Score: 25



Difficulty: Medium

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Current Buffer (saved locally, editable)  

Java 7  

```
1 import java.util.Scanner;
2 import java.util.regex.Matcher;
3 import java.util.regex.Pattern;
4
5 public class DuplicateWords {
6
7     public static void main(String[] args) {
8
9         String regex = "/* Write a RegEx matching repeated words here. */";
10        Pattern p = Pattern.compile(regex, /* Insert the correct Pattern flag here.*/);
11
12        Scanner in = new Scanner(System.in);
13        int numSentences = Integer.parseInt(in.nextLine());
14
15        while (numSentences-- > 0) {
16            String input = in.nextLine();
17
18            Matcher m = p.matcher(input);
19
20            // Check for subsequences of input that match the compiled pattern
21            while (m.find()) {
22                input = input.replaceAll(/* The regex to replace */, /* The replacement. */);
23            }
24
25            // Prints the modified sentence.
26            System.out.println(input);
27        }
28
29        in.close();
30    }
31 }
32
```

Line: 1 Col: 1

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