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**題組：基礎48題**

**題號：Q12416 : Excessive Space Remover**

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**使用語言:JAVA**

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**題目:**

How do you remove consecutive spaces in a simple editor like notepad in Microsoft Windows? One way is to repeatedly “replace all” two consecutive spaces with one space (we call it an action). In this problem, you’re to simulate this process and report the number of such “replace all” actions. For example, if you want to remove consecutive spaces in “A very big joke.”, you need two actions:

"A very  big    joke." -> "A very big  joke." -> "A very big joke."

**Input**

The input contains multiple test cases, one in a separate line. Each line contains letters, digits, punctuations and spaces (possibly leading spaces, but no trailing spaces). There will be no TAB character in the input. The size of input does not exceed 1MB.

**Output**

For each line, print the number of actions that are required to remove all the consecutive spaces. Explanation If you can’t see clearly, here is the sample input, after replacing spaces with underscores:

A\*very\*\*big\*\*\*\*joke.

\*\*\*\*\*\*\*\*\*Goodbye!

**Sample Input**

A very big joke.

Goodbye!

**Sample Output**

2

4

**問題描述：**

在像 Windows 記事本這類的編輯器中要如何移除連續的空白？我們可以重覆地以一個空白「全部取代」兩個連續的空白 (我們稱之為一個動作)。本題中你要模擬這個程序並回報需要幾個「全部取代」的動作。

比如說，如果你要移除「A very  big    joke.」中的連續空白，你需要兩個動作：

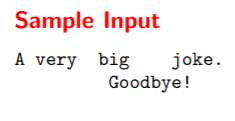
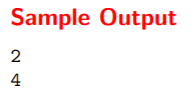
 "A very  big    joke." -> "A very big  joke." -> "A very big joke."

**Input**

輸入含有多筆測資，每筆一行。每行含有字母、數字、標點符號及空白 (可能有前導空白，但不會有後置空白)。輸入中不會有 TAB 字元。輸入檔大小不會超過 1MB。

**Output**

對於每一行，印出移除所有連續空白所需的動作次數。

**解法:**

1.使用indexOf(" ")來判斷句子裡是否有兩個空白

2.若有，使用replaceAll(" "," ") 將兩個空白以一個空白來取代

3.重複以上動作即可。

**解法範例：**

import java.util.Scanner;

public class Main

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

String input;

while(sc.hasNextLine())

{

int ans = 0;

input = sc.nextLine();

while(input.indexOf(" ")!=-1)

{

input = input.replaceAll(" "," ");

ans = ans + 1;

}

System.out.println(ans);

}

}

}