

code jam

System.out.println("hello, world!");

Qualification Round 2009

[A. Alien Language](#)[B. Watersheds](#)**C. Welcome to Code Jam**[Contest Analysis](#)[Questions asked](#) **7**

## Submissions

## Alien Language

|      |   |
|------|---|
| 10pt | Not attempted<br>7863/9407 users correct<br>(84%) |
| 23pt | Not attempted<br>6938/8239 users correct<br>(84%) |

## Watersheds

|      |   |
|------|---|
| 10pt | Not attempted<br>5201/5887 users correct<br>(88%) |
| 23pt | Not attempted<br>4674/5422 users correct<br>(86%) |

## Welcome to Code Jam

|      |   |
|------|---|
| 10pt | Not attempted<br>5255/5975 users correct<br>(88%) |
| 23pt | Not attempted<br>3029/5339 users correct<br>(57%) |

## Top Scores

|                |    |
|----------------|----|
| jaehyung       | 99 |
| rem            | 99 |
| Ying           | 99 |
| ahmed.aly.tc   | 99 |
| wcao           | 99 |
| austrin        | 99 |
| RalphFurmaniak | 99 |
| Jonick         | 99 |
| elhipercubo    | 99 |
| ralekseenkov   | 99 |

Practice Mode

[Contest scoreboard](#) | [Sign in](#)**Problem C. Welcome to Code Jam**

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the [Quick-Start Guide](#) to get started.

Small input  
10 points

Solve C-small

Large input  
23 points

Solve C-large

**Problem**

So you've registered. We sent you a welcoming email, to welcome you to code jam. But it's possible that you still don't feel welcomed to code jam. That's why we decided to name a problem "welcome to code jam." After solving this problem, we hope that you'll feel very welcome. Very welcome, that is, to code jam.

If you read the previous paragraph, you're probably wondering why it's there. But if you read it very carefully, you might notice that we have written the words "welcome to code jam" several times: 400263727 times in total. After all, it's easy to look through the paragraph and find a 'w'; then find an 'e' later in the paragraph; then find an 'l' after that, and so on. Your task is to write a program that can take any text and print out how many times that text contains the phrase "welcome to code jam".

To be more precise, given a text string, you are to determine how many times the string "welcome to code jam" appears as a sub-sequence of that string. In other words, find a sequence *s* of increasing indices into the input string such that the concatenation of `input[s[0]]`, `input[s[1]]`, ..., `input[s[18]]` is the string "welcome to code jam".

The result of your calculation might be huge, so for convenience we would only like you to find the last 4 digits.

**Input**

The first line of input gives the number of test cases, **N**. The next *N* lines of input contain one test case each. Each test case is a single line of text, containing only lower-case letters and spaces. No line will start with a space, and no line will end with a space.

**Output**

For each test case, "Case #: dddd", where *x* is the case number, and dddd is the last four digits of the answer. If the answer has fewer than 4 digits, please add zeroes at the front of your answer to make it exactly 4 digits long.

**Limits**
 $1 \leq N \leq 100$ 
**Small dataset**

Each line will be no longer than 30 characters.

**Large dataset**

Each line will be no longer than 500 characters.

**Sample**

| Input                        | Output        |
|------------------------------|---------------|
| 3                            | Case #1: 0001 |
| elcomew elcome to code jam   | Case #2: 0256 |
| weellccommee to code qps jam | Case #3: 0000 |
| welcome to codejam           |               |

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