

Kickstart Round A 2017

[A. Square Counting](#)**B. Patterns Overlap**[C. Space Cubes](#)[Questions asked](#) **3**

Submissions

Square Counting

8pt Not attempted
1423/2010 users
correct (71%)17pt Not attempted
524/1333 users
correct (39%)

Patterns Overlap

13pt Not attempted
394/1100 users
correct (36%)22pt Not attempted
287/364 users
correct (79%)

Space Cubes

14pt Not attempted
252/395 users
correct (64%)26pt Not attempted
100/119 users
correct (84%)

Top Scores

| | |
|---------------|-----|
| Doju | 100 |
| phirasit | 100 |
| jerrymao | 100 |
| globalpointer | 100 |
| Kasugano.Sora | 100 |
| alecsyde | 100 |
| FatalEagle | 100 |
| xwchow | 100 |
| iskim | 100 |
| wifi | 100 |

Problem B. Patterns Overlap

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
13 points

Solve B-small

Large input
22 points

Solve B-large

Problem

Alice likes reading and buys a lot of books. She stores her books in two boxes; each box is labeled with a pattern that matches the titles of all of the books stored in that box. A pattern consists of only uppercase/lowercase English alphabet letters and stars (*). A star can match between zero and four letters. For example, books with the titles GoneGir^l and GoneTomorrow can be put in a box with the pattern Gone**, but books with the titles TheGoneGir^l, and GoneWithTheWind cannot.

Alice is wondering whether there is any book that could be stored in either of the boxes. That is, she wonders if there is a title that matches both boxes' patterns.

Input

The first line of the input gives the number of test cases, **T**. **T** test cases follow. Each consists of two lines; each line has one string in which each character is either an uppercase/lowercase English letter or *.

Output

For each test case, output one line containing Case #x: y, where x is the test case number (starting from 1) and y is TRUE if there is a string that matches both patterns, or FALSE if not.

Limits

 $1 \leq T \leq 50$.

Small dataset

 $1 \leq \text{the length of each pattern} \leq 200$.
Each pattern contains at most 5 stars.

Large dataset

 $1 \leq \text{the length of each pattern} \leq 2000$.

Sample

| Input | Output |
|----------|----------------|
| 3 | Case #1: TRUE |
| **** | Case #2: TRUE |
| It | Case #3: FALSE |
| Shakes*e | |
| S*speare | |
| Shakes*e | |
| *peare | |

In sample case #1, the title It matches both patterns. Note that it is possible for a * to match zero characters.

In sample case #2, the title Shakespeare matches both patterns.

In sample case #3, there is no title that matches both patterns. Shakespeare, for example, does not work because the * at the start of the *peare pattern cannot match six letters.

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