

Kickstart Round A 2017

[A. Square Counting](#)**B. Patterns Overlap**[C. Space Cubes](#)[Ask a question](#)[View my submissions](#)

Submissions

Square Counting

8pt	Correct 1423/2010 users correct (71%)
17pt	Correct 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
sfiction	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 `GoneGirl` and `GoneTomorrow` can be put in a box with the pattern `Gone**`, but books with the titles `TheGoneGirl`, 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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