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Kickstart Round A 2017

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Problem B. Patterns Overlap

Confused? Read the [quick-start guide](#).

Small input
13 points

Solve B-small

You may try multiple times, with penalties for wrong submissions.

Large input
22 points

You must solve the small input first.

You have 8 minutes to solve 1 input file. (Judged after contest.)

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`, `Gonetomorrow`, 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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