

Code Challenge Week, Day 2.

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Day - 2, Question -1 :

Given a string S and text T. Output the smallest window in the string S having all characters of the text T. Both the string S and text T contains lowercase english alphabets.

Input:

First line of the input contains an integer T, denoting the number of test cases. Then T test case follows. Each test contains 2 lines having a string S and next line contains text T.

Output:

Output the smallest window of the string containing all the characters of the text. If such window doesn't exist or this task can not be done then print -1.

Constraints:

$1 \leq T \leq 100$

$1 \leq |N|, |X| \leq 1000$

Example:

Input:

2

timetopractice

toc

zoomlazarpo

oza

Output:

toprac

apzo

Explanation:

Testcase 1: "toprac" is the smallest substring in the given string S which contains every characters of T.

Day -2, Question - 2 :

On an alphabet board, we start at position (0, 0), corresponding to character board[0][0].

Here, board = ["abcde", "fghij", "klmno", "pqrst", "uvwxy", "z"], as shown in the diagram below.

We may make the following moves:

'U' moves our position up one row, if the position exists on the board;

'D' moves our position down one row, if the position exists on the board;

'L' moves our position left one column, if the position exists on the board;

'R' moves our position right one column, if the position exists on the board;

'!' adds the character board[r][c] at our current position (r, c) to the answer.

(Here, the only positions that exist on the board are positions with letters on them.)

Return a sequence of moves that makes our answer equal to target in the minimum number of moves. You may return any path that does so.

Example 1:

Input: target = "leet"

Output: "DDR!UURRR!!DDD!"

Example 2:

Input: target = "code"

Output: "RR!DDRR!UUL!R!"

Constraints:

1 <= target.length <= 100

target consists only of English lowercase letters.

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