

Location Analysis

From the data analyzed from Social Network, the travelling data for each user is stored in the form of

ID: x1, x2, x3, ... where x1, x2, x3 ,... are city names.

Write a program to read the input data from the keyboard, as well as another **ID** as **keyID**. Calculate and display the **ID** that went to the same city as **keyID**. Display only 1 ID on each line. If there is no user who went to the same city as **keyID**, display “Not Found”

Input

First line is the number of users **n**. The following **n** lines are the travelling data for each user. It is given that every user has already visited at least 1 city. The last line is **keyID** as described above.

Example of the Input and Output

Input (from keyboard)	Output (on screen)
6 51234621: A, B, D, E, F 427613829: B, D, G, H, I 38216542: Z, B, D, J 423212822: AA, B1, C3, D 4126548: J, Z3 98871973331: Q, M, N 4126548	38216542
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