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| <b>Assignment Case</b>                          |  |
| COMP6047<br>Algorithm and Programming           |   |
| <b>Computer Science</b>                         | <b>&lt;Case Code&gt;</b>  |
| <i>Valid on Compact Semester Year 2019/2020</i> | <b>Revision 00</b>  |

**Soal***Case***Googol Security**

One fine day, Bibi received a message from Googol Security. It says that someone knew her password, her account has been hacked! She immediately called the cyber security officer of the company and found out that the database has been leaked and sold in the dark web. To come up with this issue, her entrepreneurial spirit flared up and she decided to build a company with a safer database system. The database of her company stores key and value pairs for each user, with two different passwords for authentication. One password is fake, while the other is the real password. If a user queries the system with a key and a fake password, the system will produce a fake value. However, accessing it with a key and real password will show the real stored value.

**Format Input**

The application will ask for  $N$  as the number data to be stored, followed by  $N$  consecutive key ( $K_1, K_2, \dots, K_N$ ), value ( $V_1, V_2, \dots, V_N$ ), fake value ( $F_{v1}, F_{v2}, \dots, F_{vN}$ ), password ( $P_1, P_2, \dots, P_N$ ), fake password ( $F_{p1}, F_{p2}, \dots, F_{pN}$ ) as space-separated strings. Then, the application will ask for  $Q$  as the search query, consisting of a key  $Q_k$  and a password  $Q_p$  (which could be real or fake). The keys to be stored will be unique, and all the stored data will contain no spaces.

**Format Output**

The application will then output the value stored based on the correctness, and genuineness of the password.

**Constraints**

$$1 \leq n \leq N \leq 100$$

$$1 \leq |K_n|, |V_n|, |F_{vn}|, |P_n|, |F_{pn}|, |Q_k|, |Q_p| \leq 100$$

| Sample Input  | Sample Output                    |
|---|----------------------------------|
| 2<br>age 21 18 praise_the_magic_conch spongebob_is_for_kids<br>name Udin James berburu_ubur_2 tampan_dan_berani<br>name berburu_ubur_2      | Udin                             |
| 2<br>age 21 18 praise_the_magic_conch spongebob_is_for_kids<br>name Udin James berburu_ubur_2 tampan_dan_berani<br>real_name berburu_ubur_2 | Key or<br>password not<br>found. |

**Note:**

The output is in a single line.

Don't forget to add the newline character after printing the output.