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Day 8: Dictionaries and Maps



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Objective

Today, we're learning about Key-Value pair mappings using a *Map* or *Dictionary* data structure. Check out the Tutorial tab for learning materials and an instructional video!

Task

Given N names and phone numbers, assemble a phone book that maps friends' names to their respective phone numbers. You will then be given an unknown number of names to query your phone book for; for each name queried, print the associated entry from your phone book (in the form name=phoneNumber) or Not found if there is no entry for name.

Note: Your phone book should be a Dictionary/Map/HashMap data structure.

Input Format

The first line contains an integer, N, denoting the number of entries in the phone book.

Each of the N subsequent lines describes an entry in the form of 2 space-separated values on a single line. The first value is a friend's name, and the second value is an 8-digit $phone\ number$.

After the N lines of phone book entries, there are an unknown number of lines of queries. Each line (query) contains a name to look up, and you must continue reading lines until there is no more input.

Note: Names consist of lowercase English letters and are *first names* only.

Constraints

- $1 < N < 10^5$
- $1 \le queries \le 10^5$

Output Format

On a new line for each query, print Not found if the name has no corresponding entry in the phone book; otherwise, print the full name and phoneNumber in the format name=phoneNumber.

Sample Input

3
sam 99912222
tom 11122222
harry 12299933
sam
edward
harry

Sample Output

sam=99912222 Not found harry=12299933

Explanation

N = 3

We add the N subsequent (Key, Value) pairs to our map so it looks like this:

```
phoneBook = \{(sam, 99912222), (tom, 11122222), (harry, 12299933)\}
```

We then process each query and print Key=Value if the queried Key is found in the map, or Not found otherwise.

Query 0: sam

Sam is one of the keys in our dictionary, so we print sam=99912222.

Query 1: edward

Edward is not one of the keys in our dictionary, so we print Not found.

Query 2: harry

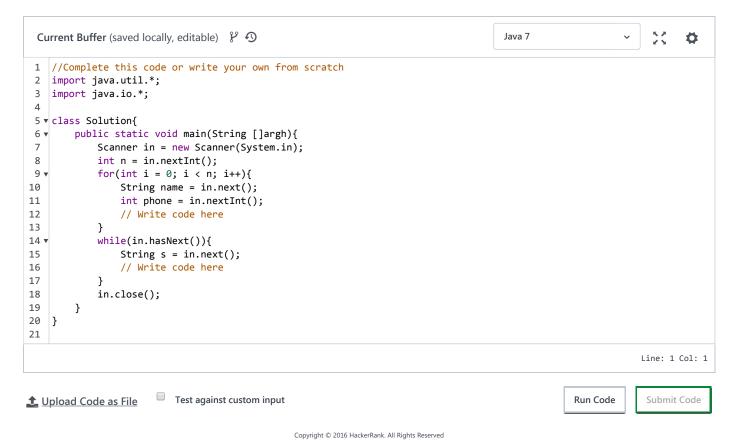
Harry is one of the keys in our dictionary, so we print harry=12299933.

Submissions: 2666

Max Score: 30

Difficulty: Easy

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