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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 guery your phone book for. For each name queried, print the associated entry from your phone book on a new line in the form name=phoneNumber; if an entry for *name* is not found, print Not found instead.

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 alphabetic letters and are first names only.

Constraints

- $1 \le n \le 10^5$
- $1 \le queries \le 10^5$

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 edward harry

Sample Output

sam=99912222 Not found harry=12299933

Explanation

We add the following n = 3 (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; otherwise, we print Not found.

Query 0: sam

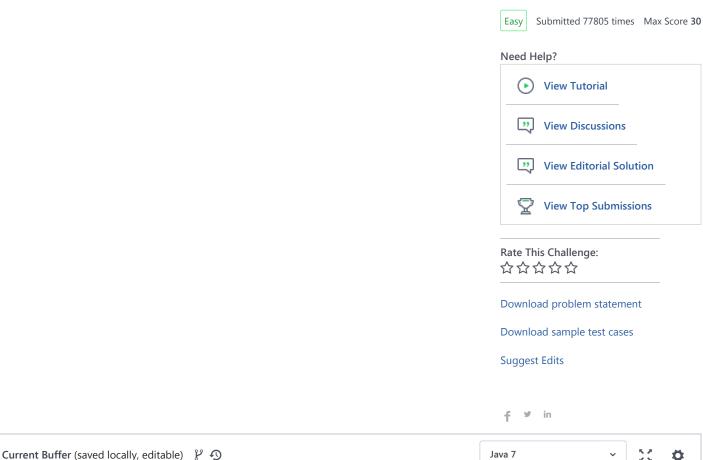
Sam is one of the keys in our dictionary, so we print sam=99912222.

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.



```
Ö
1 //Complete this code or write your own from scratch
2 ▼ import java.util.*;
3 import java.io.*;
 4
 5 ▼ class Solution{
        public static void main(String []argh){
6 ₹
7
            Scanner in = new Scanner(System.in);
8
            int n = in.nextInt();
9 .
            for(int i = 0; i < n; i++){
                String name = in.next();
10
                int phone = in.nextInt();
11
12
                // Write code here
13
            while(in.hasNext()){
14
15
                String s = in.next();
16
                // Write code here
17
            in.close();
```

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19 } 20 } 21			Line: 1 Col: 1
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