English-Khalani Translation

locked

by boleynsu

Problem Submissions Leaderboard Discussions

One day, an observer on Aiur recieved a message from another planet which is called Earth by people living on it. After doing some research, a scientist found the message was written in English, a language which is popular on Earth and also found the algorithm to translate English to Khalani. The scientist generated an English-Khalani dictionary. For each English sentence, if a English word can be found in this dictionary, then it will be translated to the corresponding Khalani word; otherwise, it can be ignored. Then, the translated words will be rearranged so that words with higher weights appear earlier in the sentence. Now, you, a zealot living on Aiur are given the dictionary and asked to translate the message.

Input Format

The first line contains an integer n. Then n lines follows. Each line contains two strings and an integer, the English word, the corresponding Khalani word and the weight of the Khalani word. Note that the same Khalani word has different weights when translated from different English words. It is guaranteed the all weights are unique and there can be different English words translated to the same Khalani word but the same English word cannot be translated to different Khalani words.

The next line contains an integer m, and then m strings follows which are words in an English sentence. It's guaranteed that words in the English sentence are distinct.

Constraints

- $1 \leq n, m \leq 10^5$
- The weights of Khalani words are in range $[-10^9, 10^9]$.
- Each word contains at most 10 characters.

Output Format

The translated Khalani sentence of words separated by a space.

Sample Input

```
4
i o 5
me o 7
your shiel 2
presence sharas 3
4 i feel your presence
```

Sample Output

```
o sharas shiel
```

Explanation

`i` is translated to `o`; `feel` is not found in the dictionary so it's ignored; `your` is translated to `shiel`; `presence` is translated to `sharas`. Then `o`, `shiel` and `sharas` are reordered according to their weights. Finally, we get the translated sentence `o sharas shiel`.

Submissions: 105

Max Score: 40

Difficulty: Medium

Rate This Challenge:

☆ ☆ ☆ ☆ ☆

More

Current Buffer (saved locally, editable)

Java 8

```
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
   named Solution. */
8      }
9  }
```

Line: 1 Col: 1

Upload Code as File

Test against custom input

Run Code

Submit Code