

PROBLEMS

SUBMISSIONS

USERS

CONTESTS

ABOUT

HELLO. YAVORYANKOV83.

Java May'19 DSA Linear 2 - 03:40:08

Students order

Alpha students love learning new stuff. They also know that in order to better understand and remember new stuff students should change their seats in the room. You are given the names of N Alpha students and K changes of seats. Your task is to implement an algorithm which displays the final ordering of the students after applying all seat changes.

Input

- Read from the standard input
- On the first line, find the number N and K
 - N students count
 - K the count of seat changes
- On the next line there will be N names
- On the next K lines there will be pair of names separated by white space
 - The first name takes the seat next to the second name (first is left, second is right)
- See sample tests for explanation

Output

- · Print on the standard output
- On a single line, print the final order of the student names

Constraints

- 1 <= N <= 2000
- 1 <= K <= 100 000
- each name contains only alphanumeric characters

Sample tests

Input

Submit solution

My submissions All submissions **Best submissions**

✔ Points: 100

(partial)

① Time limit:

0.175s

Java: 5.0s

Memory limit:

32M

Java: 32M Author:

viktor

♦ Tags

Linear Data Structures

1 Difficulty

Intermediate

✓ Allowed languages java



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Miro Gosho Gosho Stanka Stanka Miro

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Output

Stanka Miro Tosho Penka Gosho

Copy

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Explanation

- First Miro seats next to Gosho, so the order is Miro Gosho Tosho Penka Stanka
- Next Gosho seats next to Stanka, so the order is Miro Tosho Penka Gosho Stanka
- At last Stanka seats next to Miro, so the final order is Stanka Miro Tosho Penka Gosho

Input

7 4

Emo Misho Ivanka Ginka Vancho Stancho Sashka

Emo Misho

Misho Emo

Misho Sashka

Sashka Stancho

Output



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Clarifications

No clarifications have been made at this time.

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