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ChefWatson uses Social Network

Problem Code: **BOOKCHEF**

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Chef Watson uses a social network called ChefBook, which has a new feed consisting of posts by his friends. Each post can be characterized by **f** - the identifier of the friend who created the post, **p** - the popularity of the post(which is pre-calculated by ChefBook platform using some machine learning algorithm) and **s** - the contents of the post which is a string of lower and uppercase English alphabets.

Also, Chef has some friends, which he has marked as *special*.

The algorithm used by ChefBook for determining the order of posts in news feed is as follows:

- Posts of *special* friends should be shown first, irrespective of popularity. Among all such posts the popular ones should be shown earlier.
- Among all other posts, popular posts should be shown earlier.

Given, a list of identifiers of Chef's *special* friends and a list of posts, you have to implement this algorithm for engineers of ChefBook and output the correct ordering of posts in the new feed.

Input

First line contains **N**, number of *special* friends of Chef and **M**, the number of posts. Next line contains **N** integers **A₁**, **A₂**, ..., **A_N** denoting the identifiers of *special* friends of Chef. Each of the next **M** lines contains a pair of integers and a string denoting **f**, **p** and **s**, identifier of the friend who created the post, the popularity of the post and the contents of the post, respectively. It is guaranteed that no two posts have same popularity, but the same friend might make multiple posts.

Output

Output correct ordering of posts in news feed in **M** lines. Output only the contents of a post.

Constraints

- $1 \leq N, M \leq 10^3$
- $1 \leq A_i, f, p \leq 10^5$
- $1 \leq \text{length}(s) \leq 100$

Example

Input :
2 4
1 2
1 1 WhoDoesntLoveChefBook
2 2 WinterIsComing
3 10 TheseViolentDelightsHaveViolentEnds
4 3 ComeAtTheKingBestNotMiss

Output :
WinterIsComing
WhoDoesntLoveChefBook
TheseViolentDelightsHaveViolentEnds
ComeAtTheKingBestNotMiss

Explanation

First we should show posts created by friends with identifiers **1** and **2**. Among the posts by these friends, the one with more popularity should be shown first. Among remaining posts, we show those which are more popular first.

All submissions for this problem are available.

Author:

4★ [darkshadows](#)

Editorial:

<https://discuss.codechef.com/problems/BOOKCHEF>

Tags:

[cakewalk](#), [cook75](#), [darkshadows](#), [sorting](#)

Date Added:

4-10-2016

Time Limit:

1 secs

Source Limit:

50000 Bytes

Languages:

CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY, PYP3, TEXT, CPP17, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, ASM, FORT, FS, LISP clisp, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, SCM chicken, SCM qobi, ST, NEM

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User	Time	Mem	Lang	Solution
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sathwika5	0.20	2133M	JAVA	View
2★ jordan...	0.00	15M	C++14	View
2★ prana...	0.00	15.2M	C++14	View
4★ cross...	0.00	15.1M	C++14	View
1★ sumit...	0.00	15.1M	C++14	View
nahida123	0.02	17.5M	PYTH 3.6	View
mayur_093	0.00	15.3M	C++14	View
soch_51	0.02	17.5M	PYTH 3.6	View
vankshuba...	0.00	15.1M	C++14	View
coding_12...	0.02	17.5M	PYTH 3.6	View
2★ aaron...	0.00	15.1M	C++14	View

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Your IP: 157.47.82.10

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CodeChef was created as a platform to help programmers make it big in the world of **algorithms**, **computer programming**, and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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