
Extended Locations

X29835_en

There are a number of locations that are part of an adventure game. At each location there is a given set of characters and a given set of items. Print the list of locations on the appropriate format.

Input

The input starts with an integer N denoting the number of locations. The next N lines contain the name of the locations.

The next line contains an integer M denoting the number of characters. The next M lines contain the description of each character on the format "<character name>-<character level> <location name>".

The next line contains an integer K denoting the number of items. The next K lines contain the description of each character on the format "<item name>-<item level> <location name>".

Output

For each location in the order they appear in the input, print the location and its associated items and characters on the format specified in the example.

Sample input

```
5
Creepy Cave
Forbidden Forest
Spooky Swamp
Misty Mountain
Rushing River
2
Wild Warrior-0 Creepy Cave
Daring Demon-2 Forbidden Forest
4
Appetizing Apple-0 Creepy Cave
Tricky Trap-2 Forbidden Forest
Potent Potion-1 Spooky Swamp
Bedazzling Bomb-3 Misty Mountain
```

Sample output

```
Location: Creepy Cave
    Item: Appetizing Apple [0]
- Wild Warrior is here.
Location: Forbidden Forest
    Item: Tricky Trap [2]
- Daring Demon is here.
Location: Spooky Swamp
    Item: Potent Potion [1]
Location: Misty Mountain
    Item: Bedazzling Bomb [3]
Location: Rushing River
```

Problem information

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