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## Animal Enclosures

**X20976\_en**

There are a number of animals who are grouped in enclosures. Write a program that keeps track of which enclosure each animal belongs to. Each animal has a name and a species among the four types “elephant”, “frog”, “cat”, or “undefined”.

### Input

The input starts with an integer  $N$  denoting the number of animals. The next  $N$  lines are on the format “<animal type> <animal name>”, where <animal type> is the type of the animal (Elephant, Frog, Cat or Animal) and <animal name> is the name of the animal.

The next line has an integer  $M$  denoting the number of enclosures. The enclosures are given on the following lines on the format “<enclosure name> <  $K$  >”, where  $K$  is the number of animals in the enclosure. Each enclosure is followed by  $K$  lines with the names of the animals.

### Output

For each animal in the order they appear in the input, print the following line:

X is of the species Y

For each enclosure in the order they appear in the input, print the following line:

Enclosure Z contains animals AA, BB, CC, ...

All placeholders (X, Y, Z, AA, BB, CC) should be replaced with the appropriate name or species (see the sample output for an example).

#### Sample input 1

```
4
Animal Pikatxu
Elephant Jumbo
Frog Kermit
Cat Puss in Boots
2
A 2
Pikatxu
Jumbo
B 2
Kermit
Puss in Boots
```

#### Sample output 1

```
Pikatxu is of the species ...undefined...
Jumbo is of the species elephant
Kermit is of the species frog
Puss in Boots is of the species cat
Enclosure A contains animals Pikatxu, Jumbo
Enclosure B contains animals Kermit, Puss in Boots
```

### Problem information

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Generation: 2026-01-25T14:19:13.343Z

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