

## 4 Monster Lineup

It's time for the monster award ceremony! All of the monsters are excited to get up on stage and give their speeches. Each monster has been given a card listing who is standing in front of them and who is standing behind them. Only problem is, all of the monsters were so busy eating snacks that they aren't lined up yet!

Your job is to figure out the complete lineup of monsters in order, based on the cards that the monster give you. Be careful though, the monsters are in a hurry and are giving you the cards in random order.

### 4.1 Input

The first line will be a single integer  $N$ , representing the number of input lines to follow. Each of the  $N$  lines afterward represents a card in the format:

$$X<\text{space}>Y:Z$$

Where  $X$  is the name of the monster,  $Y$  is the name of the monster before them, and  $Z$  is the name of the monster after them. If  $Y$  is 0, then that means they are first in line. If  $Z$  is 0, then that means they are last in line.

### 4.2 Output

The complete lineup of monsters, in order, with each name separated by a single space.

### 4.3 Sample Input/Output

Sample Input	Sample output
5 Mummy Zombie:Gargoyle Werewolf Vampire:Zombie Gargoyle Mummy:0 Zombie Werewolf:Mummy Vampire 0:Werewolf	Vampire Werewolf Zombie Mummy Gargoyle