

# Friends of Friends

Bob uses a social networking site almost all the time. He was wondering what are Friends of Friends in that social networking site? If “X” is his friend, and “Y” is X’s friend but “Y” is not his friend, then “Y” is called his friend of friend. You have to find how many friends of friends Bob has. (Each user in that social networking site has a unique 4-digit ID number)

## Input

First line contains a integer “N” ( $1 \leq N \leq 100$ ) the number of friends in Bob's Profile. Then follow N lines.

First Integer in each line is the ID number of Bob's friend, then an integer “M” ( $1 \leq M \leq 100$ ) is the number of people in his friend list. Then follow M integers in that line, denoting the ID number of friends in his friend list (excluding Bob).

## Output

Output a single integer denoting Bob's number of friends of friends.

## Example

### Input:

```
3
2334 5 1256 4323 7687 3244 5678
1256 2 2334 7687
4323 5 2334 5678 6547 9766 9543
```

### Output:

```
6
```