## Problem I. Slot Machine

## Input file: standard input

Output file: standard output
Time limit: 1 second
Memory limit: $\quad 256$ mebibytes
Zenyk wants to win a prize on a slot machine. Slot machine consists of $N$ boxes. $i$-th box contains $L_{i}$ balls, each ball has a color $C_{i j}$.
On each turn Zenyk pays one coin, chooses one box and gets one random ball from chosen box. He wins a prize if he gets two balls of the same color. Now Zenyk is interested what is the minimum number of coins he needs to pay to guarantee winning the prize. That means that for any sequence of balls he get on each turn he can obtain 2 balls of the same color. Note that Zenyk can decide which box to choose after previous turn.
Help Zenyk to find this number.

## Input

First line of the input contains one integer $N\left(1 \leq N \leq 10^{5}\right)$. Each of the next $N$ lines contains integer $L_{i}\left(1 \leq L_{i} \leq 10^{5}\right)$ followed by $L_{i}$ integers $C_{i j}$ - colors of the balls in the $i$-th box $\left(1 \leq C_{i j} \leq 10^{5}\right)$.
It's guaranteed that there is at least one pair of balls with the same color, and that $\sum_{i=1}^{n} L_{i} \leq 10^{5}$.

## Output

Print one number - minimum number of coins.

## Example

|  |  |  |  | standard input |  | standard output |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 7 |  |  |  |  |  |  |  |  |
| 4 | 1 | 2 | 3 | 4 |  |  |  |  |
| 1 | 1 |  |  |  |  |  |  |  |
| 1 | 2 |  |  |  |  |  |  |  |
| 1 | 3 |  |  |  |  |  |  |  |
| 1 | 4 |  |  |  |  |  |  |  |
| 7 | 4 | 7 | 4 | 4 | 7 | 7 | 4 |  |
| 1 | 5 |  |  |  |  |  |  |  |

## Note

At first Zenyk chooses first box and then one of the boxes 2-5 depending on the color of the ball he get.

