Digits

All submissions
Best submissions

✓ Points: 100 (partial)
② Time limit: 0.5s

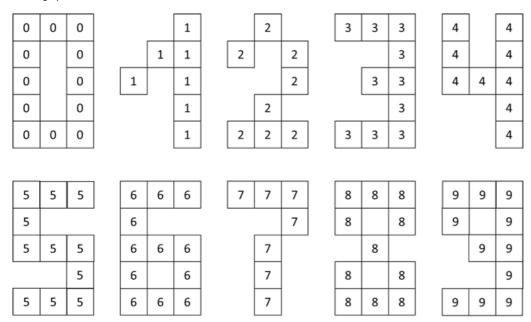
■ Memory limit: 64M

Author:

◆ TagsArrays♪ DifficultyIntermediate

You are given a matrix of digits. The matrix contains some patterns that form digits. Your task is to find these digits and calculate their sum.

The digit patterns are as follows:



- The one-digit pattern is formed from cells with the digit one
- The nine-digit pattern is formed from cells with the digit nine
- Etc..

The size of the patterns is constant and always has the given form.

Example:

3	2	1	1	2	3	0	1
2	1	1	9	7	6	4	0
1	4	1	7	7	7	5	1
2	4	1	4	2	7	1	1
3	4	1	4	7	1	3	1
0	4	4	4	7	4	5	1
5	8	2	4	7	3	2	1
1	2	7	4	9	2	1	8

Each digit patterns is formed by the same digit:

The digit patterns are marked in green, red and blue

Four digit patterns are found – twice one-digit, one seven-digit and one four-digit pattern.

The sum is 1 + 1 + 4 + 7 = 13

Input

- · Read from the standard input
- ullet On the first line you will find the number $oldsymbol{N}$ The number of rows and columns of the matrix
- On the next N lines you will find exactly N digits, separated by a space
 - These are the digits of the matrix
- The input data will always be valid and in the described format. There is no need to check it explicitly.

Output

- · Print to the standard output
- On the single line, print the sum of all the digit patterns in the matrix

Constraints

- N will always be greater or equal to 5 and less or equal to 1250
- The values in the matrix will always be digits

Sample tests

Input

```
5
1 1 1 1 1 1
1 1 1 1 1
1 1 1 1 1
1 1 1 1 1
1 1 1 1 1
1 1 1 1 1
```

Output

Сору

- The one-patern is found three times.
- The sum is 1+1+1 = 3

Input

```
7
9 9 9 2 2 2
9 9 9 2 2 2
9 9 9 2 2 2
9 9 9 2 2 2
9 9 9 2 2 2
9 9 9 2 2 2
9 9 9 2 2 2
```

Output

```
Сору
```

Explanation

- The nine-pattern is found twice and the two-pattern is also found twice
- The sum is 9 + 9 + 2 + 2 = 22

Input

```
8
3 2 1 1 2 3 0 1
2 1 1 9 7 6 4 0
1 4 1 7 7 7 5 1
2 4 1 4 2 7 1 1
3 4 1 4 7 1 3 1
0 4 4 4 7 4 5 1
5 8 2 4 7 3 2 1
1 2 7 4 9 2 1 8
```

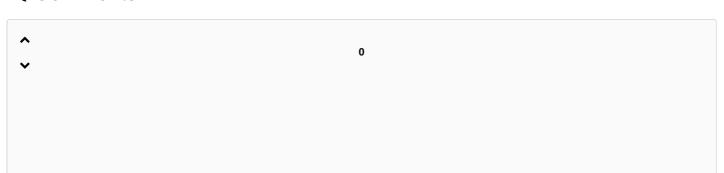
Output

Сору

Explanation

• In the example above

Comments





latcho.nikolo commented 3 months ago 9

Ще може ли малко времето на java да се увеличи. Благодаря!

0



iordanba commented 4 months ago

На втория примерен тест е 6 не е 7 :D

0



adriyanmihaylo commented 5 months ago

Моля да вдигнете времето за java.

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