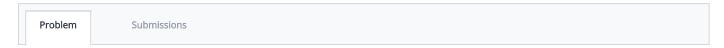
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T 113 - Johny in a Matrix



You are given a matrix A of size NxN. Every cell has a value A[i][j] associated with it. Johny is standing currently at position (1,1) and he intends to get to cell (N,N).

The cost of going from cell (i,j) to cell(x,y) is A[i][j] * A[x][y].

Johny can either decided to travel in a row-major order or in a column-major order.

Your task is to find out which method will cost him less. Print "row-major" or "column-major" accordingly.

Input

First line contains an integer N

Next N lines each contain N integers each denoting the value of the array A[][]

Output

Solved: 716 Attempted: 722

Print either "row-major" or "column-major". If both ways cost the same then print "row-major".

Sample Input 0

```
2
1 2
3 4
```

Sample Output 0

column-major

Explanation 0

```
row major cost = 1x2 + 2x3 + 3x4 = 2 + 6 + 12 = 20
col major cost = 1x3 + 3x2 + 2x4 = 3 + 6 + 8 = 17
Hence the answer is column-major
```

Contest ends in 1 day 5 hours 54 minutes 57 seconds

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More

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```
9 for i in range(size):
     for j in range(size-1):
10 ▼
11
         row=row+matrix[i][j]*matrix[i][j+1]
12 for i in range(size-1):
     row=row+matrix[i][-1]*matrix[i+1][0]
13
14 ▼for i in range(size):
15 ▼
        for j in range(size-1):
16
           col=col+matrix[j][i]*matrix[j+1][i]
17 ▼for i in range(size-1):
        col=col+matrix[size-1][i]*matrix[0][i+1]
18
19 vif(col<row):
20
       print('column-major')
21 ▼else:
22 print('row-major')
                                                                                            Line: 22 Col: 23
```

<u>♣ Upload Code as File</u> Test against custom input

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