

B. Table top

Time Limit: 3 seconds

Problem description

LeO went into the forest and found a block of wood. After sharpening, the wooden block has a rectangular base, the bottom surface is flat but the top surface is a convex shape.

The top surface of the wooden block is represented by a matrix of M rows and N columns, and the values of the elements represent the height and low of the wooden plane.

LeO wants to pour glue on the top of the wooden block to create a table top. This table top is rectangular.



Suppose, each liter of glue will correspond to 70 units of height of the matrix element. The thickness of the table top is the maximum value of the matrix. Please help LeO calculate how many liters of glue to buy to make the table top.

For example, even if the matrix 5×7 of the top surface of the wooden block is shown below. Note that, the maximum value of the matrix is 98, the total volume of glue is 1352 units, so the total liters of glue that LeO must buy is $1352/70 = 19.314286L$.

Min height: 0
Max height: 98

	0	1	2	3	4	5	6
0	59	94	41	81	82	26	48
1	98	44	94	60	75	67	75
2	48	64	0	59	64	81	29
3	1	73	50	98	16	46	91
4	50	78	96	95	23	72	0

Shape of the surface
of the wooden block

Total volume: 1352 unit
Lit: 19.314286L

	0	1	2	3	4	5	6
0	39	4	57	17	16	72	50
1	0	54	4	38	23	31	23
2	50	34	98	39	34	17	69
3	97	25	48	0	82	52	7
4	48	20	2	3	75	26	98

Shape of the glue block
after pouring it on
the surface of the wooden block

¹ <https://www.vinn.com/>

Input data is given in the form

Line 1, contains M and N that describes the row and column of the matrix ($1 \leq M, N \leq 1000$).

The next M lines, each containing N numbers $a_{i0}, a_{i1}, \dots, a_{ij}, \dots, a_{iN-1}$ ($0 \leq i \leq M-1, 0 \leq j \leq N-1, 0 \leq a_{ij} \leq 10^9$), describe the shape of the wooden block.

Output result is given in the form

Only one line that contains the total liters of glue that LeO must buy. Note that you must display 6 digits after the decimal point.

Example 1:

INPUT	OUTPUT
5 7 59 94 41 81 82 26 48 98 44 94 60 75 67 75 48 64 0 59 64 81 29 1 73 50 98 16 46 91 50 78 96 95 23 72 0	19.314286

Example 2:

INPUT	OUTPUT
3 4 5 5 5 5 5 5 5 5 5 5 5 5	0.000000