homework6.1 Collecting 2

Description

There is an n × n map consisting of positive integer numbers. You should walk from the upper-left corner to the lower-right corner and multiply the numbers along the way. If you can walk to the right or down only, what is the minimum number of trailing zeros achievable?

Input Format

The first line contains an integer number n (2 ≤ n ≤ 300) - the size of the map.

Then the following n lines contain n numbers for each line. These numbers are between 1 and 10^9, inclusive.

Output Format

Print the minimum number of trailing zeros.

Hint

Sample Input	Sample Output
2 2 8 5 1	0
3 6 7 9 6 5 1 10 2 6	0

5	1
1 76 120 6 22	
6 64 75 8 90	
10 40 8 37 9	
73 10 6 10 3	
56 9 5 11 9	