



05 Hr **36** Min **22** Sec

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A Board Game

+ Problem Description

You are given an N x N grid of squares. Each square except the top left is filled with a positive integer. You start at the top left corner with a score of 0 and move to the bottom right square by moving either right by one square or down by one square. As you move to the new square, your score becomes [S/2] + k, where S was the score at your previous square and k is the number written in the current square. In the above, [x] is the largest integer which is not greater than x. Thus, [5] is 5, and [5.5] is also 5.

Write a program to find the smallest score with which you can exit the grid.

+ Constraints

4 <= N <= 30

Number in each square <= 1000

+ Input Format

The first line contains a single integer N, representing the size of the grid

The next N lines, each having N space separated integers giving the numbers written on successive rows of the grid

+ Output

The smallest score with which you can exit the grid

+ Time Limit

1

+ Explanation

Example 1

Input

Input 4 0396 1445 8254 1859 Output 12 Explanation N=4. The set of scores are as given. The 4 X 4 scores look as follows One possible set of moves are down, right, down, right, right, down. The corresponding scores are 1, 4, 4, 7, 7, 12 Example 2 Input 5 082267 431521 6 4 20 2 8 666418 165164 Output Explanation One possible set of moves are down, right, right, right, down, down, down, right

Upload Solution [Question : A]

I, YASHRAJ DIGHE confirm that the answer submitted is my own.

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