homework5.2 Collecting

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 collect(sum) numbers along the way. If you can walk to the right or down only, what is the maximum sum of numbers achievable.

Input Format

The first line contains an integer number n ($2 \le n \le 300$) - the size of the map. Then follow n lines containing the integer numbers on the map. These numbers are between 1 and 10000, inclusive.

Output Format

Print the maximum sum in a line, without leading zeros.

Hint

Sample Input	Sample Output
2 2 8 5 1	11