HackerRank

Project Euler #83: Path sum: four ways

This problem is a programming version of Problem 83 from projecteuler.net

In the 5×5 matrix below, the minimal path sum from the top left to the bottom right, by moving left, right, up, and down, is indicated in bold red and is equal to 2297.

Find the minimum path sum in given matrix.

Input Format

Each testcase begins with an integer N followed by N lines containing the description of the matrix.

Constraints

```
1 \le N \le 700
```

 $1 \le values \ of \ elements \ in \ matrix \le 10^9$

Output Format

A single line for each testcase containing the value of the minimal path sum.

Sample Input

```
5
131 673 234 103 18
201 96 342 965 150
630 803 746 422 111
537 699 497 121 956
805 732 524 37 331
```

Sample Output

```
2297
```