**≣**Journey Around the World

☆ 比赛主页

🗅 团队提交



ACM模

请通过 入输出

出描述!

① C++ (clang++18)

时间限制: C/C++/Rust/Pascal 8秒, 其他语言16秒

空间限制: C/C++/Rust/Pascal 1024 M, 其他语言2048 M

Special Judge, 64bit IO Format: %Ild

## 题目描述 🔀

There is a grid with n rows and n columns ( $3 \le n \le 200$ ). For  $1 \le i, j \le n$ , there is an undirected edge between the cell in the i-th row and j-th column and the cell in the i-th row and (j+1)-th column (the (n+1)-th column is considered as the 1-st column), with a weight of either 1 or 2. For  $1 \le i < n$  and  $1 \le j \le n$ , there is an undirected edge between the cell in the i-th row and j-th column and the cell in the (i+1)-th row and j-th column, also with a weight of either 1 or 2.

For  $1 \le i \le n$ , find the shortest path length from the cell in the 1-st row and i-th column to the cell in the n-th row and i-th column, passing through each column at least once.

## 输入描述:

The first line contains a positive integer T representing the number of test cases. The sum of n across all test cases does not exceed 200.

For each test case, the first line contains a positive integer  $n. \ \ \,$ 

The next n lines each contain n integers, where the j-th integer of the i-th line represents the weight of the edge between the cell in the i-th row and j-th column and the cell in the i-th row and (j+1)-th column.

The following n-1 lines each contain n integers, where the j-th integer of the i-th line represents the weight of the edge between the cell in the i-th row and j-th column and the cell in the (i+1)-th row and j-th column.

## 输出描述:

For each test, output a total of n lines, where the i-th line contains a single integer representing the shortest path length from the cell in the 1-st row and i-th column to the cell in the n-th row and i-th column, passing through each column at least once.

## 示例1

输入

复制

运行结果 自测報