Caribbean Online Judge



You are in the world of mathematics to solve the great "Monkey Banana Problem". It states that, a monkey enters into a diamond shaped two dimensional array and can jump in any of the adjacent cells down from its current position (see figure). While moving from one cell to another, the monkey eats all the bananas kept in that cell. The monkey enters into the array from the upper part and goes out through the lower part. Find the maximum number of bananas the monkey can eat.

Input specification

Input starts with an integer T (1 <= T <= 50), denoting the number of test cases.

Every case starts with an integer N (1 <= N <= 100). It denotes that, there will be 2*N - 1 rows. The ith (1 <= i <= N) line of next N lines contains exactly i numbers. Then there will be N - 1 lines. The jth (1 <= j < N) line contains N - j integers. Each number is greater than zero and less than 2^15 .

Output specification

For each case, print the case number and maximum number of bananas eaten by the monkey.

Sample input

1

Sample output

Caribbean Online Judge

Case 1: 63
Case 2: 5

Hint(s)

Source LightOJ Online Judge

Added by ymondelo20

Addition date 2012-06-01

Time limit (ms) 3000

Test limit (ms) 3000

Memory limit (kb) 130000

Output limit (mb) 64

Size limit (bytes) 30000

Enabled languages

Bash C C# C++ Java Pascal Perl PHP

Enabled languages

Python Ruby Text