


Lab9
20162008_CSE_VATSAL
 shak 1.6.2

Problem ☐ A ☐ B ☒ C
Program Three_way_sum.cpp
Listing ☒ Submissions ☐ Ranking ☐ Questions ☐ C
[more...](#) Update every minutes with lines

Problem description C : Three way sum

1:12 to end

Given a right angled triangle, find the minimum path sum from top to bottom. Each step you may move to adjacent numbers on the row below. Adjacent implies you can either go to diagonal left, diagonal right or straight downwards.

Input Format

The first line indicates the number of test cases, the first line of each test case contains an integer N, which represent the number of rows in the triangle, the next N lines contains positive integers of the triangle, the i-th row of the triangle contains i integers(row number from 1 to N).

Constraints

- $1 \leq t \leq 10$
- $1 \leq N \leq 1000$

Output Format

For each testcase output the minimum sum.

Note:The sum fits in an integer

Sample Test case

Input

```
1
3
1
```