

# Sums in a Triangle

Let us consider a triangle of numbers in which a number appears in the first line, two numbers appear in the second line etc. Develop a program which will compute the largest of the sums of numbers that appear on the paths starting from the top towards the base, so that:

- on each path the next number is located on the row below, more precisely either directly below or below and one place to the right;
- the number of rows is strictly positive, but less than 100;
- all numbers are positive integers between 0 and 99.

Take care about your fingers, do not use more than **256** bytes of code.

## Input

In the first line integer  $n$  - the number of test cases (equal to about 1000). Then  $n$  test cases follow. Each test case starts with the number of lines which is followed by their content.

## Output

For each test case write the determined value in a separate line.

## Example

**Input:**

```
2
3
1
2 1
1 2 3
4
1
1 2
4 1 2
2 3 1 1
```

**Output:**

```
5
9
```

**Warning: large Input/Output data, be careful with certain languages**