# Sums in a triangle (challenge)

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#### English version

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 101;
- all numbers are positive integers between 0 and 1002.

# Input

In the first line integer  $\mathbf{n}$  - the number of test cases (less than 101). 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

#### Output:

- 5
- 9