Halloween Challenge ver. 2024

October 31st, *2024*

General Information

A) Program name

1) Solutions could be written in C/C++, Python or Java. The filename of the source code is not significant, can be any name.

B) Input

1) The input must be read from *standard input* (eg. a text file: input.txt)
2) The input is described using a number of lines that depends on the problem. No extra data appear in the input.
3) When a line of data contains several values, they are separated by *single* spaces. No other spaces appear in the input.
4) Every line, including the last one, ends with an end-of-line mark.
5) The end of the input matches the end of file.

C) Output

1) The output must be written to *standard output* (eg. a text file: output.txt)
2) When a line of results contains several values, they must be separated by *single* spaces. No other spaces should appear in the output.
3) Every line, including the last one, must end with an end-of-line.

Halloween

Halloween is here and Baker is planning to collect as many candies as possible! He has been studying his neighborhood, he knows that all the houses are lined up one next to each other and the amount of candies he can get from each house. This has been a very consistent number through the years.

Everyone in the neighborhood is concerned about Baker's health so they made an agreement: if Baker comes Trick-or-treating to their door and they saw him in either one of the adjacent houses, they will not give him any candy.

Given these conditions, Baker wants to know the maximum number of candies he can get on Halloween's night.

Input

The first line of input contains an integer T $(1 \leq T \leq 50)$ representing the number of test cases in the input. T test cases follow, each test case consists of two lines of input, the first one contains an integer N $(1 \leq N \leq 50)$, representing the number of houses in Baker's neighborhood, the second line of each test case contains N integer numbers, where the $i - th$ number in the line represents the amount of candies C_i $(0 \leq C_i \leq 100)$ Baker can get from the $i - th$ house in his neighborhood.

Output

For each test case, output a line containing a single integer, the maximum amount of candies Baker can get this Halloween.

Input example 1	Output example 1
3	4
3	189
1 2 3	83
8	
9 21 33 31 21 84 86 53	
2	
83 34	