

# Walky Walk

Bob is developing a new game. In the game, there will be N blocks, numbered from 1 to N. Initially a player will be standing at block numbered 1 and can jump to other blocks. The player's first jump should be from block 1 to block 2. Then the next jumps can be:

- 1. If the jump is in forward direction, the length must be one block longer than the previous jump.
- 2. If the jump is in backward direction, the length must be same as the previous jump.

For example, after the first jump (when the player is at block 2), s/he can jump back to block 1 or block 4.

Now each block contains a surcharge, if you jump on a certain block you have to pay that block's surcharge (it doesn't matter whether s/he visited the block before). Now the player's target will be to go from block 1 to block N by paying minimum surcharge possible. Can you find that minimum surcharge? As the player is initially at block 1 and didn't jump into the block 1 so s/he will not pay the surcharge for block 1. But if in any subsequent jump one player jumps to block 1, s/he must pay.

#### **Input:**

Input starts with an integer **T** (≤ 10), denoting the number of test cases.

The first line of each case contains the integer N,  $2 \le N \le 1000$ , the number of blocks. Then the next line contains N integers separated by space, where I'th integer ( $1 \le I \le N$ ) denotes the surcharge of I'th block. These integers will be between 1 and 500

#### **Output:**

For each case, print the case number and the minimum surcharge a players needs to give to go from block 1 to block N. See the samples for exact formatting.

Sample Input	Sample Output
2	Case 1: 12
6	Case 2: 14
1 2 3 4 5 6	
8	
2 3 4 3 1 6 1 4	



## **Explanations**

In the first test case, after jumping to square 2, Player jumps back to square 1. From there s/he can jump to square 3 and then to 6.

### **Limits:**

Language	Time	Memory
С	1 Second	50MB
C++	1 Second	50MB
Java	2 Second	50MB
C#	2 Second	50MB