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05 : 08 : 30 : 36
DAY   HRS   MIN   SEC

Codathon - Inter NIT Coding Contest 2018

LIVE

Jan 15, 2018, 06:00 PM IST - Jan 22, 2018, 06:00 PM IST

INSTRUCTIONS   PROBLEMS   SUBMISSIONS   LEADERBOARD   ANALYTICS   JUDGE

← Problems / DAY 1 - Future Lights

DAY 1 - Future Lights
Max. Marks: 100

It's the year 2050. Now, It hardly takes a few seconds to travel from one place to another. One of the future engineers is Akshay. Everyday he has to travel from his home to office. (Yup, this situation has not changed at all)

The path from his home to office is a straight road with **N** traffic signals in between.

The time taken to travel from his home to the first traffic signal, first traffic signal to second traffic signal, second traffic signal to the third and so on are denoted by t_0, t_1, t_2...and so on. (with t_n denoting the time taken to travel from the last signal to his office)

All the signals are in synchronisation with one another. They become **Green** at the same time and again become **Red** at the same time.

All the lights stay Green for one second and Red for one second alternately.

Akshay starts driving from his home at time **0**.

All the signals are Red at time 0 , remain Red for one second and then turn Green for one second and so on alternately.

Calculate the total time he spends daily to travel from home to office.

INPUT

The first line of input contains a single positive integer **T** denoting the number of test cases .
Each test case contains two lines.

First line contains a single integer **N** denoting the number of traffic signals.

Next line contains **N+1** space separated positive integers $t_0, t_1, t_2, t_3, ...t_n$

First integer denotes the time taken to travel between Akshay's home and the first signal, second integer deonotes the time taken to travel from the first signal and to second signal and so on.

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OUTPUT

Connecting in 7m...

For each test case, calculate the total time taken by Akshay to travel from his home to office and print the answer in a new line.
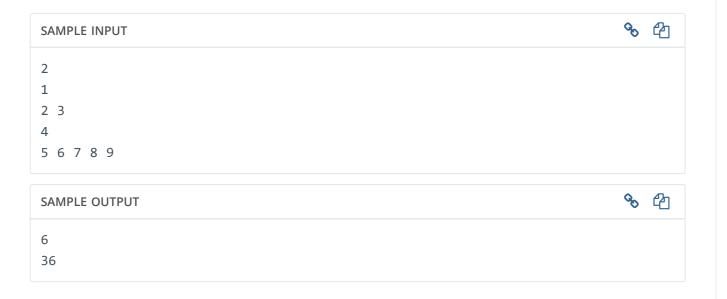
CONSTRAINTS

$1 \le T \le 100$

$0 \le N \le 1000$

$1 \le t_i \le 1000$

$(0 \le i \le N)$

SAMPLE INPUT

```
2
1
2 3
4
5 6 7 8 9
```

SAMPLE OUTPUT

```
6
36
```

Explanation

In the first case there is only one traffic signal.

He starts at time zero and reaches traffic signal at time 2 seconds.

He has to wait a second as traffic signal goes green at time 3 seconds.

Now moving ahead he takes 3 seconds more to reach from traffic signal to office. Thus total time is 6 seconds.

Similarly for second test case he only waits for 1 second (at the third signal) , so total time taken will be 36 seconds.

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
Allowed Languages:	C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Visual Basic

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CODE EDITOR

Enter your code or Upload your code as file.   Save   C++ (g++ 5.4.0)   ▼

```
 1  /*
 2  // Sample code to perform I/O:
 3
 4  cin >> name;                          // Reading input from STDIN
 5  cout << "Hi, " << name << ".\n";      // Writing output to STDOUT
 6
 7  // Warning: Printing unwanted or ill-formatted data to output will cause the tes
 8  */
 9
10  // Write your code here
11
```

1:1

▼ Provide custom input

💡 *Press Ctrl-space for autocomplete suggestions.*

COMPILE & TEST   SUBMIT

🖋 **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.

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