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SUPW

Problem Code: ZCO14002

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Zonal Computing Olympiad 2014, 30 Nov 2013

In ICO School, all students have to participate regularly in SUPW. There is a different SUPW activity each day, and each activity has its own duration. The SUPW schedule for the next term has been announced, including information about the number of minutes taken by each activity.

Nikhil has been designated SUPW coordinator. His task is to assign SUPW duties to students, including himself. The school's rules say that no student can go three days in a row without any SUPW duty.

Nikhil wants to find an assignment of SUPW duty for himself that minimizes the number of minutes he spends overall on SUPW.

Input format

Line 1: A single integer N, the number of days in the future for which SUPW data is available.

Line 2: N non-negative integers, where the integer in position i represents the number of minutes required for SUPW work on day i.

Output format

The output consists of a single non-negative integer, the minimum number of minutes that Nikhil needs to spend on SUPW duties this term

Sample Input 1

3 2 1 1 2 3 1 3 2 1

Sample Output 1

(Explanation: 1+1+1+1)

Test data

There is only one subtask worth 100 marks. In all inputs:

- $1 \le N \le 2 \times 10^5$
- The number of minutes of SUPW each day is between 0 and 10⁴, inclusive.

Live evaluation data

There are 12 test inputs on the server during the exam.

Author: admin3 (/users/admin3)

1 secs

Date Added: 2-11-2015

Time Limit:

Source Limit: 50000 Bytes

Languages: C, C99 strict, CPP 4.3.2, CPP 6.3, CPP14, JAVA, PYTH, PYTH 3.5

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The time now is: 10:40:03 PM Your IP: 47.29.57.166 CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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