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v1.1.0

CSD Testing System

(/en/)

Split an array into two subarrays with a minimal difference

Cost: 14 | Solved: 30

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given an array S of n naturals.

You have to split the array S into two subarrays S_1 and S_2 in a way that the difference of sums of their elements will be minimal.

Input:

The first line contains a natural n ($1 \leq n \leq 10^5$) – the quantity of elements of the array.

The second line contains n numbers – the elements of the array.

Output:

The minimal difference of sums of S_1 's and S_2 's elements.

Example:

Input	Output
8 67 37 86 7 96 77 81 87	0

5 10 20 15 5 25	5
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