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Training ticket

Session

ID: training8ED7CN-JD5

Time limit: 120 min.

Status: closed

Created on: 2015-11-01

Started on: 2015-11-01

Finished on: 2015-11-01

Tasks in test

1 **TapeEquilibrium**
 Submitted in: JavaScript

Correctness

100%

Performance

100%

Task score

100%

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100

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EASY

1. TapeEquilibrium

Minimize the value $|A[0] + \dots + A[P-1] - (A[P] + \dots + A[N-1])|$.

score: 100%

Task description

A non-empty zero-indexed array A consisting of N integers is given. Array A represents numbers on a tape.

Any integer P , such that $0 < P < N$, splits this tape into two non-empty parts: $A[0], A[1], \dots, A[P-1]$ and $A[P], A[P+1], \dots, A[N-1]$.

The *difference* between the two parts is the value of: $|A[0] + A[1] + \dots + A[P-1] - (A[P] + A[P+1] + \dots + A[N-1])|$

In other words, it is the absolute difference between the sum of the first part and the sum of the second part.

For example, consider array A such that:

```
A[0] = 3
A[1] = 1
```

Solution

Programming language used: JavaScript

Total time used: 34 minutes

Effective time used: 34 minutes

Notes: not defined yet

Task timeline

