

## Problem B

### JAG Box

Time Limit: 2 seconds

The JAG Box is an ordinary rectangular box that is currently popular around the world. There are  $N$  JAG Boxes. For each  $i = 1, 2, \dots, N$ , the  $i$ -th box has an integer weight  $A_i$ .

You will build a vertical stack by repeatedly choosing one remaining box and inserting it at the very bottom of the current stack. When a box of weight  $w$  is inserted at the bottom of the existing stack whose total weight is  $x$ , that box receives load equal to  $\lfloor \frac{x}{w} \rfloor$ .

Determine the minimum possible total load over all boxes.

### Input

The input is given in the following format:

$N$   
 $A_1 A_2 \dots A_N$

- $2 \leq N \leq 200\,000$
- $1 \leq A_i \leq 10^9$  ( $1 \leq i \leq N$ )
- All input values are integers.

### Output

Output the answer in a single line.

Sample Input	Sample Output
5 3 1 4 1 5	3