#### **Pulkit's Dilemma**

Online shopping website "Slipkart", which is offering a deal on books. The description of the deal is, for each book, one needs to pay exact amount writte

n on it, and one can take one more book of amount strictly lesser as a gift. Pulkit being the geekiest guy, would like to take all the books available on the Website. For this, he needs your help to calculate the minimum amount of money he needs to pay to get all the books availing this offer.

## Input

First line - n (number of books)
Second line - n positive integers i.e. cost of ith book

# Output

Minimum amount of money.

## **Example**

input:

3

123

output:

4

(He can buy the book of cost 3 and get the book with cost 2 as a gift. Then he buys the book of cost 1)

## **Constraints**

1<=n<=10^5

1<=costofanybook<=10^9

Time Limit: 1 sec

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