

Nice Bro Aron

Aron has just received N bags of candies (each contains C_i candies) from his uncle. Being born in a strict family, Aron was taught by her mother to always share his present with his younger sister, Udrey. Aron does not dare to disobey her mother, but he also knows that Udrey doesn't really like candy; besides, Aron loooves candy.

Aron comes up with a brilliant solution: give one bag of candies with the least number of candies to Udrey. By doing this, Aron will get the most possible total number of candies, while his mother will think that Aron is a nice boy.

Your task is to compute the total number of candies Aron can get with his brilliant solution.

Input

Input begins with one integers: N ($1 \leq N \leq 1,000$) denoting the number of bags. The next line contains N integers: C_i ($1 \leq C_i \leq 100$) denoting the number of candies in the i^{th} bag.

Output

Output in a line an integer representing the output for the given input.

Examples

input

Example #1

5
5 2 3 1 4

output

14

explanation

Aron gives bag with 1 candy to Udrey. The remaining bags have $5 + 2 + 3 + 4 = 14$ candies.

input

Example #2

3
10 10 10

output

20

explanation

Those three bags have the same number of candies. Aron gives one to Udrey, and he still has two with the total of $10 + 10 = 20$ candies.

input

Example #3

4

10 8 20 15

output

45

End of Problem