# Missing Coin Sum

You have n coins with positive integer values. What is the smallest sum you cannot create using a subset of the coins?

**Input**

The first input line has an integer n: the number of coins.

The second line has n integers x1,x2,…,xnx1,x2,…,xn: the value of each coin.

**Output**

Print one integer: the smallest coin sum.

Constraints

•1≤n≤2⋅105

•1≤xi≤10

**Example**

**Input:**

5

2 9 1 2 7

**Output:**

6