

DP-S008 (E028)

Solved Challenges 0/2

[Back To Challenges List](#)**Non-Measurable Smallest Weight****ID:11122 Solved By 622 Users**

A shop-keeper is having **N** integer values representing the measurement weights. He wishes to find the smallest integer value of weight that cannot be measured using these N weights. Please help the shop keeper by completing the program.

Boundary Condition(s):

1 <= N <= 1000

1 <= Each weight value <= 500

Input Format:

The first line contains N.

The second line contains the N integer values separated by a space.

Output Format:

The first line contains an integer value.

Example Input/Output 1:

Input:

4

2 4 1 10

Output:

8

Explanation:

1, 2, 4 and **10** can be measured using the given single measurement.**3** - 1 and 2**5** - 1 and 4**6** - 2 and 4**7** - 1, 2 and 4**8** - cannot be measured and hence is printed as the output.**Example Input/Output 2:**

Input:

5

1 4 2 4 3

Output:

15

Max Execution Time Limit: 100 millisecs

Ambiance

Python3 (3.x)



Reset

```
1 N = int(input())
2 weights = list(map(int, input().strip().split()))
3
4 measurements = 1
5 weights.sort()
6 for weight in weights:
7     if(weight<=measurements):
8         measurements+=weight
9     else:
10         break
11 print(measurements)
12
```

Code did not pass the execution



TestCase ID: 63872

Input:

```
4
2 4 1 10
```

Expected Output:

```
8
```

Your Program Output:

```
18
```

Save

Run

☐ Run with a custom test case (Input/Output)