### **Problem B**

### **Diet Plan**

You have a diet plan for the next N days (numbered from 1 to N). During day i, you need to drink exactly  $P_i$  mL of milk. Alternatively, you can consume a biscuit instead, as a replacement for milk on that day.

Currently, you only have M mL of milk and K biscuits. If there is not enough milk to drink on a day and you run out of biscuits, then your diet plan stops.

Determine the maximum number of days you can maintain your diet plan.

#### Input

The first line consists of three integers N M K ( $1 \le N \le 100$ ;  $0 \le M, K \le 100$ ).

The next line consists of N integers  $P_i$  ( $1 \le P_i \le 100$ ).

#### **Output**

Output a single integer representing the maximum number of days you can maintain your diet plan.

#### Sample Input #1

7 100 2 70 30 20 40 50 40 10

### Sample Output #1

5

Explanation for the sample input/output #1

You can consume a biscuit on day 1 and 4 to maintain your diet plan for 5 days.

#### Sample Input #2

7 70 1 70 30 40 20 50 10 60

#### Sample Output #2

3

Explanation for the sample input/output #2

You can consume a biscuit on day 1 to maintain your diet plan for 3 days.

# Sample Input #3

7 0 100 100 100 100 100 100 100

### Sample Output #3

7

# Sample Input #4

7 0 0 1 1 1 1 1 1 1

# Sample Output #4

0