TCS CODEVITA 2019 PROBLEM ANSWERS

SIMPLIFIED VERSION

**Bottle Necks**

Problem Description

There are N bottles. ith bottle has A[i] radius. Once a bottle is enclosed inside another bottle, it ceases to be visible. Minimize the number of visible bottles.

You can put ith bottle into jth bottle if following condition is fulﬁlled:

1) ith bottle itself is not enclosed in another bottle.

2) jth bottle does not enclose any other bottle.

3) Radius of bottle i is smaller than bottle j (i.e. A[i] < A[j]).

Constraints

1 <= N <= 100000.

1 <= A[i] <= 10^18.

Input Format

First line contains a single integer N denoting the number of bottles.

Second line contains N space separated integers, ith integer denoting the radius of Ith bottle.

(1 <= i <= N).

Output

Minimum number of visible bottles.

**Test Case**

Explanation Example 1

Input

8

1 1 2 3 4 5 5 4

Output

2