Danny and Sticks

Danny is a toddler whose hobby is to collect sticks. He has N number of sticks and upon observing, Danny sees that some of his sticks are of the same length. He is curious whether he could make squares out of those sticks and wants to know how many squares and of what size he could make out of those sticks.

Since there are many sticks at hand, help Danny to calculate the maximum area of the biggest square that can be formed and how many such squares can be made using the sticks.

Input Format

The first line contains a positive integer denoting the number of sticks. The next line contains N space-separated integers, each denotes Ri the length of i-th stick.

Refer the sample input for illustration.

Constraints

- **The number of sticks, N**: A positive integer where (1 <= N <= 1000).
- **The length of i-th stick, Ri**: A positive integer where (1 <= Ri <= 50)

Output Format

Output a real number denoting the maximum area of the square that could be formed, followed by a space and a positive integer denoting the number of such squares.

Refer the sample output for illustration.

Sample Input 0

```
7
5 3 2 3 6 3 3
```

Sample Output 0

```
9 1
```

Explanation 0

The area of the largest formable square is 9 (3 x 3) and only 1 such square can be formed from the sticks available.