# Problem J. Swappable

Time limit 2000 ms Mem limit 1048576 kB

### **Problem Statement**

Given an array of N integers  $A = (A_1, A_2, ..., A_N)$ , find the number of pairs (i, j) of integers satisfying all of the following conditions:

- $1 \le i < j \le N$
- $A_i 
  eq A_j$

#### **Constraints**

- All values in input are integers.
- $2 \le N \le 3 \times 10^5$
- $1 \le A_i \le 10^9$

#### Input

Input is given from Standard Input in the following format:

#### Output

Print the answer as an integer.

## Sample 1

Input	Output
3 1 7 1	2

In this input, we have A = (1, 7, 1).

- For the pair (1,2),  $A_1 \neq A_2$ . For the pair (1,3),  $A_1 = A_3$ .
- For the pair (2,3),  $A_2 \neq A_3$ .

# Sample 2

Input	Output
10 1 10 100 1000 10000 100000 1000000 10000000 100000000	45

# Sample 3

Input	Output
20 7 8 1 1 4 9 9 6 8 2 4 1 1 9 5 5 5 3 6 4	173