Week 4

Problem 2

Problem Statement:

Given an array a of n integers, find out number of pairs of indices i and j of the array a, such that the i < j and a[i] > a[j].

Input:

The first line contains a single integer *n* denoting the length of the array.

The second line contains n space separated integers a1 a2 … an, representing the array a.

Output:

Print a single integer denoting the answer the problem.

Constraints:

$1 <= n <= 10^5$

$-1*10^{-9} <= n <= 1*10^9$

Sample Testcases:

Input	Output
5 1 2 3 4 5	0

Input	Output
5 5 4 3 2 1	10