Naval Exercise

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

During a naval exercise at sea, submarines have conducted a series of artillery firing tests to evaluate the accuracy and effectiveness of modern weapon systems. Each artillery shell fired aims at a specific target with certain coordinates in the ocean. This exercise is not only intended for training purposes but also to assess the combat capability of submarines under real conditions.

Each artillery shell can hit one or more different targets, and a target can be struck by multiple shells. The objective of this problem is to determine the number of pairs of shells that have hit a specific target. This will help military analysts evaluate the accuracy of the shots as well as the effectiveness of each type of shell.

To determine the number of shell pairs, you need to read data containing the coordinates of the targets that the shells have hit, then analyze these coordinates to count the number of different pairs that have struck the same target. This means you need to identify duplicate coordinates and from there calculate the number of corresponding shell pairs.

Problem requirement: Write a program to read the number of shells and the coordinates that these shells have hit. After that, you need to calculate and print the number of pairs of shells that hit the same target. Specifically, each pair of shells hitting the same target coordinate will be counted as a unique combination of the two corresponding shell indices.

Input structure:

- The first line contains a positive integer n ($1 \leq n \leq 2 \times 10^5$), representing the number of shells that have been fired.
- From the second line onward, there are nnn lines, each containing two integers x and y separated by a space, representing the coordinates of the target that the i-th shell has hit. These coordinates will help identify the targets that the shells have aimed at.

Output structure:

- The program should output a single integer representing the number of pairs of shells that have hit the same specific target. This result will be used to evaluate the combat capability of the shells during the exercise.

Example:

INPUT	OUTPUT
6 1 1 2 2 1 1 1 1 2 1 2 2	4

Note:

- The pairs of artillery shells that hit the same target are: (1,3); (1,4); (3,4) and (2,6).