The member states of the UN are planning to send 2 people to the moon. They want them to be from different countries. You will be given a list of pairs of astronaut ID's. Each pair is made of astronauts from the same country. Determine how many pairs of astronauts from different countries they can choose from.

Example

$n = 4$
$astronaut = [1, 2], [2, 3]$

There are 4 astronauts numbered 0 through 3. Astronauts grouped by country are $[0]$ and $[1, 2, 3]$. There are 3 pairs to choose from: $[0, 1]$, $[0, 2]$ and $[0, 3]$.

Function Description

Complete the journeyToMoon function in the editor below.

journeyToMoon has the following parameter(s):

- int n: the number of astronauts
- int astronaut[p][2]: each element $astronaut[i]$ is a 2 element array that represents the ID's of two astronauts from the same country

Returns

- int: the number of valid pairs

Input Format

The first line contains two integers n and p, the number of astronauts and the number of pairs.
Each of the next p lines contains 2