# 5512. Count Unhappy Friends

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You are given a list of `preferences` for `n` friends, where `n` is always **even**.

For each person `i`, `preferences[i]` contains a list of friends **sorted** in the **order of preference**. In other words, a friend earlier in the list is more preferred than a friend later in the list. Friends in each list are denoted by integers from `0` to `n−1`.

All the friends are divided into pairs. The pairings are given in a list `pairs`, where `pairs[i] = [x`$_i$`, y`$_i$`]` denotes `x`$_i$ is paired with `y`$_i$ and `y`$_i$ is paired with `x`$_i$.

| | |
|---|---|
| User Accepted: | 0 |
| User Tried: | 0 |
| Total Accepted: | 0 |
| Total Submissions: | 0 |
| Difficulty: | Medium |

However, this pairing may cause some of the friends to be unhappy. A friend `x` is unhappy if `x` is paired with `y` and there exists a friend `u` who is paired with `v` but:

- `x` prefers `u` over `y`, and
- `u` prefers `x` over `v`.

Return *the number of unhappy friends*.

**Example 1:**

```
Input: n = 4, preferences = [[1, 2, 3], [3, 2, 0], [3, 1, 0], [1, 2, 0]], pairs = [[0, 1],
Output: 2
Explanation:
Friend 1 is unhappy because:
- 1 is paired with 0 but prefers 3 over 0, and
- 3 prefers 1 over 2.
Friend 3 is unhappy because:
- 3 is paired with 2 but prefers 1 over 2, and
- 1 prefers 3 over 0.
Friends 0 and 2 are happy.
```

**Example 2:**

```
Input: n = 2, preferences = [[1], [0]], pairs = [[1, 0]]
Output: 0
Explanation: Both friends 0 and 1 are happy.
```

**Example 3:**

```
Input: n = 4, preferences = [[1, 3, 2], [2, 3, 0], [1, 3, 0], [0, 2, 1]], pairs = [[1, 3],
Output: 4
```

**Constraints:**

- `2 <= n <= 500`
- `n` is even.
- `preferences.length == n`
- `preferences[i].length == n − 1`
- `0 <= preferences[i][j] <= n − 1`
- `preferences[i]` does not contain `i`.
- All values in `preferences[i]` are unique.
- `pairs.length == n/2`
- `pairs[i].length == 2`
- $x_i$ != $y_i$
- $0 <= x_i, y_i <= n − 1$
- Each person is contained in **exactly one** pair.

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JavaScript  ▾

```javascript
1 ▾ /**
2    * @param {number} n
3    * @param {number[][]} preferences
4    * @param {number[][]} pairs
5    * @return {number}
6    */
7 ▾ var unhappyFriends = function(n, preferences, pairs) {
8
9   };
```