Campus Test
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Practice Mode

Practice Round China New Grad Test 2014

- Submissions

Bad Horse

12pt	Not attempted **789/1984 users** correct (40%)
21pt	Not attempted **707/776 users** correct (91%)

Captain Hammer

22pt	Not attempted **755/1070 users** correct (71%)

Moist

4pt	Not attempted **793/1049 users** correct (76%)
6pt	Not attempted **770/775 users** correct (99%)

- Top Scores

darknife	65
gatsfn	65
AlphardWang	65
Prowindy	65
levy0834	65
shuiluxianzi	65
Konjac	65
TShen	65
LTzycLT	65
lxc902	65

Problem A. Bad Horse

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the Quick-Start Guide to get started.

Small input 1 12 points	Solve A-small-1
Small input 2 21 points	Solve A-small-2

Problem

As the leader of the Evil League of Evil, Bad Horse has a lot of problems to deal with. Most recently, there have been far too many arguments and far too much backstabbing in the League, so much so that Bad Horse has decided to split the league into two departments in order to separate troublesome members. Being the Thoroughbred of Sin, Bad Horse isn't about to spend his valuable time figuring out how to split the League members by himself. That what he's got you -- his loyal henchman -- for.

Input

The first line of the input gives the number of test cases, **T**. **T** test cases follow. Each test case starts with a positive integer **M** on a line by itself -- the number of troublesome pairs of League members. The next **M** lines each contain a pair of names, separated by a single space.

Output

For each test case, output one line containing "Case #x: y", where x is the case number (starting from 1) and y is either "Yes" or "No", depending on whether the League members mentioned in the input can be split into two groups with neither of the groups containing a troublesome pair.

Limits

$1 \leq \mathbf{T} \leq 100$.
Each member name will consist of only letters and the underscore character.
Names are case-sensitive.

No pair will appear more than once in the same test case.

Each pair will contain two distinct League members.

Small dataset

1 ≤ **M** ≤ 10.

Large dataset

1 ≤ **M** ≤ 100.

Sample

Input	Output
2 1 Dead_Bowie Fake_Thomas_Jefferson 3 Dead_Bowie Fake_Thomas_Jefferson Fake_Thomas_Jefferson Fury_Leika Fury_Leika Dead_Bowie	Case #1: Yes Case #2: No