**16. Intramural Snowball Fight League**

# Program Name: ISFL.java Input File: isfl.dat

Every year, the Cypress Woods Computer Science Club holds an intramural snowball fight tournament. Because nobody likes you, you’ve been delegated the job of organizing the team signups and logistics. According to the National Snowball Fight League Rules and Regulations, a team is a group of at most 3 people, although it can contain less than 3. Given a list of raw data consisting of people and a team they want to be on, sort them into respective teams and print them out in a more friendly format. Team membership is given on a first come, first serve basis. If somebody wants to join a team that already has 3 people, they will not be able to join.

**Input**

The first line of input will contain a single integer n that indicates how many test cases to follow. The first line of each test case will be a single integer r that indicates the number of people that signed up. Each of the following lines consists of the person’s name, and, if the person has a preferred team, then a dash -, followed by their preferred team’s name. If a person just wants to have fun and does not have a preferred team, they will be placed with other team-less people and people who could not get into their preferred team.

**Output**

Output each team’s name followed by the members of the team, both in alphabetical order (case-sensitive). Any people without a team will be placed a team named Untitled Team X, where X is a number that starts at 1 and increments for each untitled team that is created. The untitled teams will be sorted together with the titled teams in alphabetical order. Separate each team with a newline, and separate each test case with ----- (5 dashes).

**Example Input File**

3

8

Alex-Team A

Mihir-Team A

Zeki-Team B

Ashay-Team A

Sidh-Team A

Ronak-Team B

Tristan

Ral

6

ASDF-GHJK

QWERTY

2539

J-J

foo

bar

9

John Doe-Cool people

Jane Smith-Cool people

john doe-Cool people

jane smith-cool People

cool Person-cool People

Me-Cool people

You-Uncool people

Untitled

Untilted

**Example Output to Screen**

Team A

Alex

Ashay

Mihir

Team B

Ronak

Zeki

Untitled Team 1

Ral

Sidh

Tristan

-----

GHJK

ASDF

J

J

Untitled Team 1

2539

QWERTY

foo

Untitled Team 2

bar

-----

Cool people

Jane Smith

John Doe

john doe

Uncool people

You

Untitled Team 1

Me

Untilted

Untitled

cool People

cool Person

jane smith

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