**12. Sandwiches**

# Program Name: Sandwiches.java Input File: sandwiches.dat

Sammy Klaws always keeps his reindeer fed. After all, to drive his operations, his reindeer have to be healthy and fit. The reindeer are very picky and only eat handmade sandwiches. However, Sammy has recently become more and more busy and is looking at outsourcing the job of feeding his reindeer, and he has outsourced it to you because it means he won’t have to pay taxes. To make a sandwich, you need bread, meat, and cheese. You went to the grocery store earlier this week and made a log of what items you bought as you were putting them in your refrigerator. Being an organized person, you separated each type of food into different drawers. However, this also means the first item you wrote down is at the very back of your refrigerator, and you don’t want to just go off the list and dig out everything from the back. So, you’ve decided to write a program to create sandwich combinations for you to eat. Items will not be put back into the refrigerator once you have eaten them for obvious reasons. If any of the three items are missing, then you cannot make a sandwich.

**Input**

The first line of input will contain a single integer n that indicates the number of things you bought. The next n lines will contain a log of all the items you bought, with the name, a dash, and then the type of food it is – bread, meat, or cheese. These lines are in the order you put the food into the refrigerator.

**Output**

For each possible sandwich combination, output the sandwiches in the order you will be eating them, and the sandwiches’ ingredients in the format bread, meat, cheese.

**Example Input File**

10

Whole wheat-bread

White-bread

Turkey-meat

American-cheese

Swiss-cheese

Ham-meat

Cheddar-cheese

Chicken-meat

Hamburger buns-bread

Patty-meat

**Example Output to Screen**

Hamburger buns, Patty, Cheddar

White, Chicken, Swiss

Whole wheat, Ham, American