**Abstract**

The pet-friendly restaurant offers meals for customers and pure meats for customers’ pets. People who want to come to the restaurant should register as a member of the restaurant first, so do the pets. The human meals in the restaurant are contain two ingredients, vegetables and meats. The pet-friendly restaurant maintains a list of customers, a list of pets, a list of meals, a list of vegetables, and a list of meats.

**Rules**

\*Each customer must have a membership number.

\*A membership number is unique to a customer.

\*Each pet must have a pet membership number.

\*A pet membership number is unique to a pet.

\*A customer can have many pets. A customer may not have any pet.

\*A pet must belong to one customer and only one customer.

\*Each human meal must have a meal number.

\*A meal number is unique to a human meal.

\*A customer must have at least one meal.

\*A meal must be eaten by one customer and only one customer.

\*Each vegetable must have a vegetable number.

\*A vegetable number is unique to a vegetable.

\*A meal can contain only one vegetable. A meal may not contain a vegetable.

\*A vegetable can be used in many meals. A vegetable may not be used in a meal.

\*Each meat must have a meat number.

\*A meat number is unique to a meat.

\*A human meal can contain only one meat. A meal may not contain a meat.

\*A meat must be used at least one human meal.

\*A pet must have at least one meat.

\*A meat must be eaten by one pet and only one pet.