## Shopping Spree

Create two classes: class **Person** and class **Product**. Each person should have a **name**, **money** and a **bag of products**. Each product should have **name** and **cost**. Name cannot be an **empty** string. Be careful about **white space** in name. Money and cost cannot be a **negative** number.

|  |  |
| --- | --- |
| **Person** | |
| - | name: String |
| - | money: double |
| - | products: List<Product> |
| + | Person (String , double) |
| - | setName (String) : void |
| - | setMoney (double) : void |
| + | buyProduct (Product) : void |
| + | getName(): String |

|  |  |
| --- | --- |
| **Product** | |
| - | name: String |
| - | cost: double |
| + | Product (String, double) |
| - | setCost (double): void |
| - | setName (String): void |
| + | getName(): String |
| + | getCost (): double |

Create a program in which each command corresponds to a person buying a product. If the person **can afford** a product **add it** to his bag. If a person **doesn’t have** enough money, **print** an appropriate message:  
**"{Person name} can't afford {Product name}"**

On the first two lines you are given all people and all products. After all purchases print every person in the order of appearance and all products that he has bought also in order of appearance. If nothing is bought, print the name of the person followed by **"Nothing bought"**.

Read commands till you find line with **"END"** command. In case of invalid input (negative money exception message: "**Money cannot be negative**") or empty name: (empty name exception message "**Name cannot be empty**") break the program with an appropriate message. See the examples below:

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Pesho=11;Gosho=4  Bread=10;Milk=2  Pesho Bread  Gosho Milk  Gosho Milk  Pesho Milk  END | Pesho bought Bread  Gosho bought Milk  Gosho bought Milk  Pesho can't afford Milk  Pesho - Bread  Gosho - Milk, Milk |
| Mimi=0  Kafence=2  Mimi Kafence  END | Mimi can't afford Kafence  Mimi – Nothing bought |
| Jeko=-3  Chushki=1  Jeko Chushki  END | Money cannot be negative |