

Naresh (aka Customer c1) buys a set of items from a shop. Suresh (aka Customer c2) also buys all items bought by Naresh except the first item, in place of which Suresh buys another item. Write a program that defines two classes **Items** and **Customer**, and clones the object of class **Customer** to model the scenario given above. Classes **Items** and **Customer** should be cloneable, and must have the functionality to clone (deep copy) c2 from c1. You are given as input the number of items bought by Naresh, the names of the items, and the new item that Suresh will be buying. The code to change the first item and the name in the second customer object after the cloning, has been provided in the given code. You should complete the program as specified below.

Define a class **Items** that implements interface **Cloneable**, and has the following members.

- A public instance variable `item` of type `String[]` to store the item names
- Constructor(s) and accessors to, respectively, initialize and access the instance variable
- Override the method **`clone`**
- Override the method **`toString`** so that the format of the output is in accordance with those in the test cases

Define a class **Customer** that implements interface **Cloneable**, and has the following members.

- Instance variable name of type String to store the name of the customer
- Instance variable of type **Items** to store the items purchased by the customer
- Implement the constructor(s), the accessor **getItems()** to return the object of Items, and the mutator **setName(String s)** to update the name of the customer.
- Override the method **clone**
- Override the method **toString** so that the format of the output is in accordance with those in the test cases.

Sample Test Cases

Test Case 1

Input

2
milk
bread
maggi

Expected Output

naresh milk bread
suresh maggi bread

Actual Output

Test Case 2

Input

3
stationery
maggi
pasta
noodles

Expected Output

naresh stationery maggi pasta
suresh noodles maggi pasta

Actual Output