

```
public class Item {  
    private String name ;  
    private long price ;  
    private int weight ;  
  
    public Item(String name, long price, int weight) {  
        this.name = name;  
        this.price = price;  
        this.weight = weight ;  
    }  
  
    public String getName() {  
        return name;  
    }  
  
    public long getPrice() {  
        return price;  
    }  
  
    public long getWeight() {  
        return weight;  
    }  
  
    @Override  
    public String toString(){  
        DecimalFormat f = new DecimalFormat("#,### CFA");  
        return name + ": " + f.format(price);  
    }  
}
```

```

public class ShoppingCart {

    private static int id = 0 ;

    private ArrayList<Item> shoppingCart = new ArrayList<Item>() ;

    public ShoppingCart(){
        this.id += 1 ;
    }

    public int getId(){
        return this.id;
    }

    public void addItem(Item iA ) //throws Exception
    {
        int s = 0 ;

        for(Item i : shoppingCart){
            s += i.getWeight() ;
        }

        if (s < 10000 && s+ iA.getWeight() < 10000){
            shoppingCart.add(iA) ;
        }
        else{
            //throw new IllegalStateException("Erreur le poid est superieur a 10kg");
        }

    }

    public boolean removeItem(Item iR){
        for(Item i : shoppingCart){
            if(iR == i){

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        shoppingCart.remove(iR) ;  
        return true ;  
    }  
}  
return false ;  
}  
  
public int itemCount(){  
    return shoppingCart.size() ;  
}  
  
public long totalPrice(){  
    long s =0;  
    for(Item i : shoppingCart){  
        s += i.getPrice() ;  
    }  
    return s ;  
}  
  
}
```

```

public class Main {

    public static void main(String[] args) {

        //Item item = new Item("corn flakes", 500);
        //System.out.println(item.getPrice()); // affiche: 500
        //System.out.println(item.getName()); // affiche: corn flakes
        //
        //Item item = new Item("corn flakes", 5000);
        //System.out.println(item); // affiche: corn flakes: 5 000 CFA
        //Item chewingGum = new Item("chewing gum", 1403);
        //System.out.println(chewingGum); // affiche: chewing gum: 1 403 CFA
        //
        //Item item1 = new Item("corn flakes", 500);
        //Item item2 = new Item("caviar", 50000);
        //Item item3 = new Item("water", 101);
        //ShoppingCart cart = new ShoppingCart();
        //cart.addItem(item1);
        //cart.addItem(item2);
        //cart.addItem(item3);
        //System.out.println(cart.itemCount()); // affiche: 3
        //System.out.println(cart.totalPrice()); // affiche: 50601
        //
        //ShoppingCart cart = new ShoppingCart();
        //Item item = new Item("corn flakes", 500);
        //cart.addItem(item);
        //cart.removeItem(new Item("corn flakes", 500));
        //System.out.println(cart.itemCount()); // affiche: 0
        //
        //Item item1 = new Item("corn flakes", 501, 1000);
        //Item item2 = new Item("caviar", 50000, 500);
    }
}

```

```

//Item item3 = new Item("water", 500, 5000);
//ShoppingCart cart = new ShoppingCart();
//cart.addItem(item1);
//cart.addItem(item2);
//cart.addItem(item3);
//// cart.addItem(item3); // lève java.lang.IllegalStateException
//cart.removeItem(new Item("eau", 500, 5000));
//// cart.addItem(item3); // lève java.lang.IllegalStateException
//cart.removeItem(new Item("water", 500, 5000));
//cart.addItem(item3); // ajout possible!
//
ShoppingCart c1 = new ShoppingCart();
System.out.println(c1.getId()); // affiche: 1
Item item1 = new Item("x", 501, 1000);
c1.addItem(item1);
Item item2 = new Item("caviar", 50000, 500);
c1.addItem(item2);
System.out.println(c1.getId()); // affiche: 1
ShoppingCart c2 = new ShoppingCart();
System.out.println(c2.getId()); // affiche: 2
ShoppingCart c3 = new ShoppingCart();
Item item3 = new Item("water", 500, 5000);
c3.addItem(item3);
System.out.println(c3.getId()); // affiche: 3

}

}

```