TP GLOG AV

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Question 3: il y a une erreur dans cette méthode de test. L'erreur réside dans l'utilisation de assertTrue(expected.equals(result)).

Question 5 : tous les tests ont réussis

```
Question 6:
@Override
public boolean equals(Objtect objt) {
    if (this == objt) {
         return true;
    if (objt == null | | getClass() != objt.getClass()) {
         return false;
    Money other = (Money) objt;
    return fAmount == other.fAmount && fCurrency.equals(other.fCurrency);
}
Question 7:
package fr.emse.test;
import static org.junit.Assert.*;
import org.junit.Before;
import org.junit.Test;
public class MoneyTest {
    private Money m12CHF;
    private Money m14CHF;
    @Before
    public void setUp() {
         m12CHF = new Money(12, "CHF");
         m14CHF = new Money(14, "CHF");
    }
    @Test
    public void testSimpleAdd() {
         Money expected = new Money(26, "CHF");
         Money result = m12CHF.add(m14CHF);
         assertEquals(expected, result);
    }
    @Test
```

```
public void testEquals() {
         assertTrue(!m12CHF.equals(null));
         assertEquals(m12CHF, m12CHF);
         assertEquals(m12CHF, new Money(12, "CHF"));
         assertTrue(!m12CHF.equals(m14CHF));
    }
}
Question 8:
@Override
    public boolean equals(Objtect objt) {
         if (this == objt) {
              return true;
         if (objt == null | | getClass() != objt.getClass()) {
              return false;
         MoneyBag other = (MoneyBag) objt;
         return fMonies.equals(other.fMonies);
    }
Question 12:
import static org.junit.Assert.assertEquals;
import org.junit.Before;
import org.junit.Test;
public class MoneyBagTest {
     private Money f12CHF;
    private Money f7USD;
    private MoneyBag fMB1;
    private MoneyBag fMB2;
    @Before
    public void setUp() {
         f12CHF = new Money(12, "CHF");
         f7USD = new Money(7, "USD");
         fMB1 = new MoneyBag(f12CHF);
         fMB2 = new MoneyBag(f7USD);
    }
    @Test
    public void testMixedSimpleAdd() {
         Money bag[] = { f12CHF, f7USD };
         MoneyBag expected = new MoneyBag(bag);
         assertEquals(expected, f12CHF.add(f7USD));
    }
```

```
@Test
    public void testBagSimpleAdd() {
         MoneyBag expected = new MoneyBag(f12CHF, f7USD);
         assertEquals(expected, fMB1.add(f7USD));
    }
    @Test
    public void testSimpleBagAdd() {
         MoneyBag expected = new MoneyBag(f12CHF, f7USD);
         assertEquals(expected, f12CHF.add(fMB2));
    }
    @Test
    public void testBagBagAdd() {
         MoneyBag expected = new MoneyBag(f12CHF, f7USD);
         assertEquals(expected, fMB1.add(fMB2));
    }
}
Question 13:
interface IMoney:
package fr.emse.test;
interface IMoney {
    IMoney addMoney(Money money);
    IMoney addMoneyBag(MoneyBag moneybag);
}
Dans Class Money:
class Money implements IMoney {
    private int fAmount;
    private String fCurrency;
    public Money(int amount, String currency) {
         fAmount = amount;
         fCurrency = currency;
    }
    public int amount() {
         return fAmount;
    }
    public String currency() {
         return fCurrency;
    }
```

```
public IMoney add(IMoney money) {
         return m.addMoney(this);
    }
    public IMoney addMoney(Money money) {
         if (currency().equals(m.currency())) {
              return new Money(amount() + m.amount(), currency());
         } else {
              // Handle different currencies
              return null; // For simplicity, returning null
         }
    }
    public IMoney addMoneyBag(MoneyBag moneybag) {
         return mb.addMoney(this);
    }
}
Dans class MoneyBag:
class Money implements IMoney {
    private int fAmount;
    private String fCurrency;
    public Money(int amount, String currency) {
         fAmount = amount;
         fCurrency = currency;
    }
    public int amount() {
         return fAmount;
    }
    public String currency() {
         return fCurrency;
    }
    public IMoney add(IMoney m) {
         return m.addMoney(this);
    }
    public IMoney addMoney(Money m) {
         if (currency().equals(m.currency())) {
              return new Money(amount() + m.amount(), currency());
              // Handle different currencies
              return null; // For simplicity, returning null
         }
```

```
}
    public IMoney addMoneyBag(MoneyBag mb) {
        return mb.addMoney(this);
    }
}
Et les methodes add/addMoney/ addMoneyBag:
public IMoney add(IMoney m) {
        return m.addMoneyBag(this);
    }
    public IMoney addMoney(Money m) {
        fMonies.add(m);
        return this;
    }
    public IMoney addMoneyBag(MoneyBag mb) {
        for (Money m : mb.fMonies) {
             appendMoney(m);
        }
        return this;
    }
```

Question 14:

Il faut importer le lib : import static org.junit.Assert.assertEquals;