

EXPECTED:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean
placeBet(model.interfaces.Player,int,model.enumeration.BetType)
public boolean
removeGameEngineCallback(view.interfaces.GameEngineCallback)
public boolean removePlayer(model.interfaces.Player)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public java.lang.String toString()
public java.util.Collection<model.interfaces.Player> getAllPlayers()
public model.interfaces.Player getPlayer(java.lang.String)
public void addGameEngineCallback(view.interfaces.GameEngineCallback)
public void addPlayer(model.interfaces.Player)
public void applyBetResults(model.interfaces.CoinPair)
public void
spinPlayer(model.interfaces.Player,int,int,int,int,int,int,int) throws
java.lang.IllegalArgumentException
public void spinSpinner(int,int,int,int,int,int) throws
java.lang.IllegalArgumentException
```

ACTUAL:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean
placeBet(model.interfaces.Player,int,model.enumeration.BetType)
public boolean
removeGameEngineCallback(view.interfaces.GameEngineCallback)
public boolean removePlayer(model.interfaces.Player)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
```

```
public final void wait(long,int) throws java.lang.InterruptedException
public java.lang.String toString()
public java.util.Collection<model.interfaces.Player> getAllPlayers()
public model.interfaces.Player getPlayer(java.lang.String)
public void addGameEngineCallback(view.interfaces.GameEngineCallback)
public void addPlayer(model.interfaces.Player)
public void applyBetResults(model.interfaces.CoinPair)
public void
spinPlayer(model.interfaces.Player,int,int,int,int,int,int) throws
java.lang.IllegalArgumentException
public void spinSpinner(int,int,int,int,int,int) throws
java.lang.IllegalArgumentException
```

VALIDATION RESULT for model.GameEngineImpl: PASSED

EXPECTED:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public java.lang.String toString()
public void
playerCoinUpdate(model.interfaces.Player,model.interfaces.Coin,model.i
nterfaces.GameEngine)
public void
playerResult(model.interfaces.Player,model.interfaces.CoinPair,model.i
nterfaces.GameEngine)
public void
spinnerCoinUpdate(model.interfaces.Coin,model.interfaces.GameEngine)
public void
spinnerResult(model.interfaces.CoinPair,model.interfaces.GameEngine)
```

ACTUAL:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public final native java.lang.Class<?> getClass()
public final native void notify()
```

```

public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public java.lang.String toString()
public void
playerCoinUpdate(model.interfaces.Player,model.interfaces.Coin,model.i
nterfaces.GameEngine)
public void
playerResult(model.interfaces.Player,model.interfaces.CoinPair,model.i
nterfaces.GameEngine)
public void
spinnerCoinUpdate(model.interfaces.Coin,model.interfaces.GameEngine)
public void
spinnerResult(model.interfaces.CoinPair,model.interfaces.GameEngine)

```

VALIDATION RESULT for view.GameEngineCallbackImpl: PASSED

EXPECTED:

```

protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean equals(model.interfaces.Coin)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public int getNumber()
public java.lang.String toString()
public model.enumeration.CoinFace getFace()
public void flip()

```

ACTUAL:

```

protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean equals(model.interfaces.Coin)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()

```

```
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public int getNumber()
public java.lang.String toString()
public model.enumeration.CoinFace getFace()
public void flip()
```

VALIDATION RESULT for model.CoinImpl: PASSED

EXPECTED:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean equals(model.interfaces.CoinPair)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public java.lang.String toString()
public model.interfaces.Coin getCoin1()
public model.interfaces.Coin getCoin2()
```

ACTUAL:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean equals(model.interfaces.CoinPair)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public java.lang.String toString()
public model.interfaces.Coin getCoin1()
public model.interfaces.Coin getCoin2()
```

VALIDATION RESULT for model.CoinPairImpl: PASSED

EXPECTED:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean setBet(int)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public int getBet()
public int getPoints()
public java.lang.String getPlayerId()
public java.lang.String getPlayerName()
public java.lang.String toString()
public model.enumeration.BetType getBetType()
public model.interfaces.CoinPair getResult()
public void resetBet()
public void setBetType(model.enumeration.BetType)
public void setPlayerName(java.lang.String)
public void setPoints(int)
public void setResult(model.interfaces.CoinPair)
```

ACTUAL:

```
protected native java.lang.Object clone() throws
java.lang.CloneNotSupportedException
protected void finalize() throws java.lang.Throwable
public boolean equals(java.lang.Object)
public boolean setBet(int)
public final native java.lang.Class<?> getClass()
public final native void notify()
public final native void notifyAll()
public final native void wait(long) throws
java.lang.InterruptedException
public final void wait() throws java.lang.InterruptedException
public final void wait(long,int) throws java.lang.InterruptedException
public int getBet()
public int getPoints()
public java.lang.String getPlayerId()
public java.lang.String getPlayerName()
public java.lang.String toString()
public model.enumeration.BetType getBetType()
```

```
public model.interfaces.CoinPair getResult()  
public void resetBet()  
public void setBetType(model.enumeration.BetType)  
public void setPlayerName(java.lang.String)  
public void setPoints(int)  
public void setResult(model.interfaces.CoinPair)
```

VALIDATION RESULT for model.SimplePlayer: PASSED

```
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Heads
```

Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Coin Master coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerResult  
INFO: The Coin Master, final result=Coin 1: Heads, Coin 2: Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Heads

Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Loser coin 2 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerResult  
INFO: The Loser, final result=Coin 1: Tails, Coin 2: Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Dabbler coin 1 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Dabbler coin 2 flipped to Heads  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Dabbler coin 1 flipped to Tails  
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl  
playerCoinUpdate  
FINE: The Dabbler coin 2 flipped to Tails



```
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerCoinUpdate
FINE: The Dabbler coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
playerResult
INFO: The Dabbler, final result=Coin 1: Heads, Coin 2: Heads
Jul 19, 2019 1:55:11 PM client.SimpleTestClientSoln main
```

```
INFO: SPINNING ...
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 1 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 2 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 1 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 2 flipped to Tails
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 1 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerCoinUpdate
FINE: Spinner coin 2 flipped to Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerResult
INFO: Spinner, final result=Coin 1: Heads, Coin 2: Heads
Jul 19, 2019 1:55:11 PM view.GameEngineCallbackSolutionImpl
spinnerResult
INFO: Final Player Results
Player: id=1, name=The Coin Master, bet=100, betType=COIN1,
points=1100, RESULT .. Coin 1: Heads, Coin 2: Tails
Player: id=2, name=The Loser, bet=100, betType=COIN2, points=650,
RESULT .. Coin 1: Tails, Coin 2: Tails
Player: id=3, name=The Dabbler, bet=100, betType=BOTH, points=700,
RESULT .. Coin 1: Heads, Coin 2: Heads
```