SAMPLE RUN 1:

```
RationalNumber c( 13, 2 ), d( 3, 6 ), x;
```

```
13/2 + 1/2 = 7
13/2 - 1/2 = 6
13/2 * 1/2 = 13/4
13/2 / 1/2 = 13
13/2 is:
  > 1/2 according to the overloaded > operator
  >= 1/2 according to the overloaded < operator
  >= 1/2 according to the overloaded >= operator
  > 1/2 according to the overloaded <= operator
  != 1/2 according to the overloaded == operator
  != 1/2 according to the overloaded != operator
```

SAMPLE RUN 2:

```
RationalNumber c( 6, 5 ), d( 15, 4 ), x;
```

```
6/5 + 15/4 = 99/20
6/5 - 15/4 = -51/20
6/5 * 15/4 = 9/2
6/5 / 15/4 = 8/25
6/5 is:
  <= 15/4 according to the overloaded > operator
  < 15/4 according to the overloaded < operator
  < 15/4 according to the overloaded >= operator
  <= 15/4 according to the overloaded <= operator
  != 15/4 according to the overloaded == operator
  != 15/4 according to the overloaded != operator
```

SAMPLE RUN 3:

```
RationalNumber c( 1, 4 ), d( 16, 64 ), x;
```

```
1/4 + 1/4 = 1/2
1/4 - 1/4 = 0
1/4 * 1/4 = 1/16
1/4 / 1/4 = 1
1/4 is:
  <= 1/4 according to the overloaded > operator
  >= 1/4 according to the overloaded < operator
  >= 1/4 according to the overloaded >= operator
  <= 1/4 according to the overloaded <= operator
  == 1/4 according to the overloaded == operator
  == 1/4 according to the overloaded != operator
```

SAMPLE RUN 4:

```
RationalNumber c( 4, 11 ), d( 4, 17 ), x;
```

```
4/11 + 4/17 = 112/187
4/11 - 4/17 = 24/187
4/11 * 4/17 = 16/187
4/11 / 4/17 = 17/11
4/11 is:
  > 4/17 according to the overloaded > operator
  >= 4/17 according to the overloaded < operator
  >= 4/17 according to the overloaded >= operator
  > 4/17 according to the overloaded <= operator
  != 4/17 according to the overloaded == operator
  != 4/17 according to the overloaded != operator
```

SAMPLE RUN 5:

```
RationalNumber c( 6, 3 ), d( 96, 12 ), x;
```

```
2 + 8 = 10
2 - 8 = -6
2 * 8 = 16
2 / 8 = 1/4
2 is:
   <= 8 according to the overloaded > operator
   < 8 according to the overloaded < operator
   < 8 according to the overloaded >= operator
   <= 8 according to the overloaded <= operator
   != 8 according to the overloaded == operator
   != 8 according to the overloaded != operator
```