```
public static void main (String[] args)
      {
            FractionBottle fb1 = new FractionBottle (10, 1, 2);
            FractionBottle fb2 = new FractionBottle (5, 2, 3);
            FractionBottle fb3, fb4, fb5, fb6, fb7;
            //create pointer to array

            System.out.println ("First FractionBottle number: " + fb1);
            System.out.println ("Second FractionBottle number: " + fb2);
            if (fb1.equals(fb2))
                  System.out.println ("fb1 and fb2 are equal.");
            else
                  System.out.println ("fb1 and fb2 are NOT equal.");
            fb4 = fb1.add(fb2);
            fb5 = fb1.subtract(fb2);
            fb6 = fb1.multiply(fb2);
            fb7 = fb1.divide(fb2);
            System.out.println ("fb1 + fb2: " + fb4);
            System.out.println ("fb1 - fb2: " + fb5);
            System.out.println ("fb1 * fb2: " + fb6);
            System.out.println ("fb1 / fb2: " + fb7);
            System.out.println("The program will now create 3 arrays\n"
                        + "of random sizes and prompt for values.");
            //FractionBottle[] fractionArray = new
FractionBottle[ARRAY_SIZE];
            FractionBottle[] fractionBottleArrayOne;
            FractionBottle[] fractionBottleArrayTwo;
            FractionBottle[] fractionBottleArrayThree;

            fractionBottleArrayOne = new
FractionBottle[getRandomArraySize()];
            System.out.println("Read the first array. " );
            readFractionBottleArray(fractionBottleArrayOne);
            System.out.println("The fractionBottle values in the first array
are: " );
            printFractioBottleArray(fractionBottleArrayOne);
            fb7 = getAverage(fractionBottleArrayOne);
            System.out.println("The average of FractionBottle array one is "
+ fb7);

            fractionBottleArrayTwo = new
FractionBottle[getRandomArraySize()];
            System.out.println("Read the second array. " );
            readFractionBottleArray(fractionBottleArrayTwo);
            System.out.println("The fractionBottle values in the second array
are: " );
            printFractioBottleArray(fractionBottleArrayTwo);
            fb7 = getAverage(fractionBottleArrayTwo);
            System.out.println("The average of FractionBottle array two is "
+ fb7);

            fractionBottleArrayThree = new
FractionBottle[getRandomArraySize()];
            System.out.println("Read the third array. " );
            readFractionBottleArray(fractionBottleArrayThree);
            System.out.println("The fractionBottle values in the third array
are: " );
```

```
            printFractioBottleArray(fractionBottleArrayThree);
            fb7 = getAverage(fractionBottleArrayThree);
            System.out.println("The average of FractionBottle array three is
" + fb7);
            System.out.println("The three arrays are" );
            printFractioBottleArray(fractionBottleArrayOne);
            printFractioBottleArray(fractionBottleArrayTwo);
            printFractioBottleArray(fractionBottleArrayThree);
            FractionBottle[] largest =
getLargestArray(fractionBottleArrayOne, fractionBottleArrayTwo,
                        fractionBottleArrayThree);
            FractionBottle[] arrayWithLargestValues;
            if(fractionBottleArrayOne == largest)
                  arrayWithLargestValues =
createArrayWithLargestValues(largest,
                              fractionBottleArrayTwo,
fractionBottleArrayThree);
            else if(fractionBottleArrayTwo == largest)
                  arrayWithLargestValues =
createArrayWithLargestValues(largest,
                              fractionBottleArrayOne,
fractionBottleArrayThree);
            else// fractionArrayThree is largest
                  arrayWithLargestValues =
createArrayWithLargestValues(largest,
                              fractionBottleArrayOne,
fractionBottleArrayTwo);
            System.out.println("\nAn array with the largest bottle values
taken from the\n"+
                        "3 arrays has " + arrayWithLargestValues.length + "
elements.");
            printFractioBottleArray(arrayWithLargestValues);

      }
```