

```
/*  
 * Adds two given integers and prints the result in a fancy way.  
 */  
public class AddTwo {  
    public static void main(String[] args) {  
        // Put your code here  
        int    var1 = Integer.parseInt(args[0]);  
        int var2 = Integer.parseInt(args[1]);  
        int sum = var1 + var2;  
        System.out.println(var1 + " + " + var2 + " = " + sum);  
    }  
}
```

```
/*
```

```
 * Write a program that gets a quantity of cents as a command-line argument.
```

```
 * The program prints how to represent this quantity using as many quarters  
as possible, plus the remainder in cents.
```

```
*/
```

```
public class Coins {
```

```
    public static void main(String[] args) {
```

```
        // Put your code here
```

```
        int    cents = Integer.parseInt(args[0]);
```

```
        int quarters = cents / 25;
```

```
        int remains = cents % 25;
```

```
        System.out.println("Use " + quarters + " quarters and " +  
remains + " cents");
```

```
    }
```

```
}
```

```
/*  
 * Solves linear equations of the form  $a \cdot x + b = c$ .  
 * The program gets a, b, and c as command-line arguments,  
 * computes x, and prints the result.  
 * Treats the three arguments as well as the computed value as double values  
 */  
  
public class LinearEq {  
    // Put your code here  
  
    public static void main(String[] args) {  
        double a = Double.parseDouble(args[0]);  
        double b = Double.parseDouble(args[1]);  
        double c = Double.parseDouble(args[2]);  
        double x = (c - b) / a;  
        System.out.println(a + " * x + " + b + " = " + c);  
        System.out.println("x = " + x);  
    }  
}
```

```
/*
```

```
 * Three sides can form a triangle if the sum of the lengths of any two sides is  
greater than the length of the remaining side.
```

```
 * This is known as the Triangle Inequality Theorem.
```

```
 * Write a program that tests if three given integers form a triangle.
```

```
*/
```

```
public class Triangle {
```

```
    public static void main(String[] args) {
```

```
        // Put your code here
```

```
        int    var1 = Integer.parseInt(args[0]);
```

```
        int var2 = Integer.parseInt(args[1]);
```

```
        int    var3 = Integer.parseInt(args[2]);
```

```
        boolean istriangle = var1 + var2 > var3;
```

```
        istriangle = istriangle && (var2 + var3 > var1);
```

```
        istriangle = istriangle && (var1 + var3 > var2);
```

```
        System.out.println(var1 + ", " + var2 + ", " + var3 + ": " +  
istriangle);
```

```
    }
```

```
}
```

```

/*
 * Generates three random integers, each in a given range [a,b),
 * prints them, and then prints the minimal number that was generated.
 */

import java.util.concurrent.ThreadLocalRandom;

public class GenThree {
    public static void main(String[] args) {
        // Put your code here

        int min = Integer.parseInt(args[0]);
        int max = Integer.parseInt(args[1]);
        int diff = max - min;

        int first = ThreadLocalRandom.current().nextInt(min, max);
        int second = ThreadLocalRandom.current().nextInt(min, max);
        int third = ThreadLocalRandom.current().nextInt(min, max);
        int minnum = Math.min(first, second);
        minnum = Math.min(minnum, third);

        System.out.println(first);
        System.out.println(second);
        System.out.println(third);
        System.out.println("The minimal generated number was " +
minnum);
    }
}

```