/\*

\* Adds two given integers and prints the result in a fancy way.

\*/

public class AddTwo {

public static void main(String[] args){

// Gets a,b from the user

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

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

System.out.println(a + " + " + b + " = " + (a + b));

}

/\*

\* 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) {

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

int quarters = quantity/25;

int cents = quantity%25;

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

}

}

/\*

\* Solves linear equations of the form aג‹…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 {

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 ans = (c-b)/a;

System.out.println(a + " \* x + "+ b + " = "+ c);

System.out.println ("x = " + ans);

}

}

/\*

\* 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)

{

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

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

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

boolean isTriangle = ((a<b+c)&& (b<a+c)&& (c<a+b));

System.out.println(a + ", "+ b + ", " + c + ": " + isTriangle);

}

}

/\*

\* Generates three random integers, each in a given range [a,b),

\* prints them, and then prints the minimal number that was generated.

\*/

public class GenThree {

public static void main(String[] args) {

// prints a random value in [0,1)

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

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

int c = (int)((b-a) \* Math.random() + a) ;

a = (int)( (b-a) \* Math.random() + a) ;

b = (int)( (b-a) \* Math.random() + a) ;

int minimal = Math.min(a,b);

minimal = Math.min(minimal,c);

System.out.println(a);

System.out.println(b);

System.out.println(c);

System.out.println("The minimal generated number was " + minimal);

}

}