/\*

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

\*/

public class AddTwo

{

public static void main(String[] args)

{

//Gets two numbers

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

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

//Prints their addition

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)

{

//Gets the number of cents

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

int q = totall / 25;

int c = totall - (q\*25);

//Prints the biggest quantity of quarters that can be used and the cents that remained

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

}

}

/\*

\* Solves linear equations of the form a⋅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)

{

//Gets three numbers that represent a, b ,c in the equation a⋅x + b = c

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

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

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

//Solves the equation and Prints the equation and the solution

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)

{

//Gets three numbers that to check if they represent vertices of a triangle

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

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

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

//Checks if the numbers are vertices of a triangle according to the Triangle Inequality Theorem

System.out.println((a+b)>c && (a+c)>b && (b+c)>a);

}

}

/\*

\* 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)

{

//Gets two numbers

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

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

//Inserts three random numbers between a (includes) to b (excludes)

int n1 = (int)(((Math.random()) \* (b-a)) + a);

int n2 = (int)(((Math.random()) \* (b-a)) + a);

int n3 = (int)(((Math.random()) \* (b-a)) + a);

//Prints those three numbers

System.out.println(n1);

System.out.println(n2);

System.out.println(n3);

//Finds the smallest number an prints it

int min = Math.min(n1, n2);

min = Math.min(min, n3);

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

}

}