

6			6		
Set up the program			<pre>// Set Up the program import java.util.Scanner; public class Output { public static void main(String[] args) { try { double firstT, secondT, thirdT; String seconds; int xIndex, equalIndex; Scanner scan = new Scanner(System.in); boolean bContinue = true; System.out.println("Hello, welcome to the linear algebra processing program!\n "); while (bContinue) { bContinue = false; </pre>		
G			G		
Get the equation from the user			<pre>// Get the equation from the user System.out.println("Please input the question, or write 'quit' to exit: "); String question = scan.nextLine().toLowerCase().trim().replace(" ", ""); if (question.contains("quit")) { bContinue = false; System.exit(0); } xIndex = question.indexOf("x"); equalIndex = question.indexOf("="); </pre>		
B			B		
Analyze the question to get the first, second and third terms.			<pre>// Analyze the question to get the first, second and third terms. firstT = Integer.valueOf(question.substring(0, xIndex)); secondT = Integer.valueOf(question.substring(xIndex + 1, equalIndex)); thirdT = Integer.valueOf(question.substring(equalIndex + 1)); System.out.println("The first term is: "+firstT+"x"); System.out.println("The second term is: "+secondT); System.out.println("The third term is: "+thirdT+"\n"); if (secondT > 0) { secondS = "+ "; } else { secondS = "- "; } </pre>		
4			4		
Subtract the second term from the third term.			<pre>// Subtract the second term from the third term. thirdT = thirdT - secondT; System.out.println("Subtracted the second term from both sides. "+ "Now the equation is: " + ((int) firstT) + "x" + " = " + (int) thirdT); </pre>		
L			L		
Divide the third term by the coefficient of x			<pre>// Divide the third term by the coefficient of x. thirdT = thirdT / firstT; System.out.println("Divide the third term by the coefficient of x."+ "Now the equation is: x" + " = " + (int) thirdT); ... </pre>		

H		H	
Repeat the original question to the user		<pre>// Repeat the original question to the user System.out.println(" \n \nThe question was: " + ((int) firstT) + "x " + secondS + (int) Math.abs(secondT) + " = " + (int) thirdT);</pre>	
2		2	
Tell the answer to the equation		<pre>// Tell the answer to the equation System.out.println("\n \nThe answer to the question is: x = " + thirdT);</pre>	
X		X	
Repeat the program		<pre>// Repeat the program bContinue=true; System.out.println("=====\n \n ");</pre>	
Finish the program		<pre> } }catch (Exception e){ System.out.println("!!! Whoops, there's been some sort of issue with your input. " + "The program will close, but you can just run it again. !!!"); System.exit(0); } }</pre>	
E		E	
Set up the program		<pre>import java.util.Scanner; public class Output { public static void main(String[] args) { Scanner scan = new Scanner(System.in); int firstN, secondN, thirdN, denominator, sum;</pre>	
U		U	
Greet the user		<pre>System.out.println("Hello user, this program is used to add "+ "together fractions that have the same DENOMINATOR.\n ");</pre>	
Q		Q	
Get the denominator		<pre>System.out.println("Please insert the denominator: "); denominator = scan.nextInt();</pre>	

W			W		
Get the first nominator from the user			<pre>System.out.println("Please insert the first nominator: "); firstN = scan.nextInt();</pre>		
Y			Y		
Get the second nominator from the user			<pre>System.out.println("Please insert the second nominator: "); secondN = scan.nextInt();</pre>		
I			I		
Get the third nominator from the user			<pre>System.out.println("Please insert the third nominator: "); thirdN = scan.nextInt();</pre>		
P			P		
Add up the three nominators			<pre>sum = firstN+secondN+thirdN;</pre>		
O			O		
Give the answer to the user			<pre>System.out.println("The answer is: \n \n "+ sum+" \n-----\n "+denominator+"\n\n");</pre>		
Finish the program			<pre>} }</pre>		