

```

import java.util.Scanner;
public class cmod {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Enter first number: ");
        int firstNum = input.nextInt();
        System.out.println("Enter second number: ");
        int secNum = input.nextInt();
        String binary = "";
        String secondBinary = Integer.toBinaryString(secNum);
        while (secondBinary.length() < 3) {
            secondBinary = "0" + secondBinary;
        }
        binary += secondBinary;
        String wholeBin = toBinary(secondBinary);
        System.out.println("Enter third number: ");
        int thrNum = input.nextInt();
        String thirdBinary = Integer.toBinaryString(thrNum);
        while (thirdBinary.length() < 3) {
            thirdBinary = "0" + thirdBinary;
        }
        binary += thirdBinary;
        wholeBin += toBinary(thirdBinary);
        System.out.println("Enter fourth number: ");
        int frtNum = input.nextInt();
        String fourthBinary = Integer.toBinaryString(frtNum);
        while (fourthBinary.length() < 3) {
            fourthBinary = "0" + fourthBinary;
        }
        binary += fourthBinary;
        wholeBin += toBinary(fourthBinary);
        if (firstNum == 1 && wholeBin.charAt(2) == 'x')
        {
            String part1 = wholeBin.substring(0,2);
            String part2 = wholeBin.substring(3,9);
            wholeBin = part1 + "s" + part2;
        }
        if (firstNum == 2 && wholeBin.charAt(5) == 'x')
        {
            String part1 = wholeBin.substring(0,5);
            String part2 = wholeBin.substring(6,9);
            wholeBin = part1 + "s" + part2;
        }
        if (firstNum == 4 && wholeBin.charAt(8) == 'x')
        {
            String part1 = wholeBin.substring(0,8);
            String part2 = wholeBin.substring(9,9);
            wholeBin = part1 + "t" + part2;
        }
        System.out.println("The permissions is: " + wholeBin);
        System.out.println("The raw binary is: " + binary);
    }
    public static String toBinary(String bin) {
        String secperms = "";
        for (int i = 0; i < 3; i++) {
            char bit = bin.charAt(i);
            if (i == 0) {
                secperms += (bit == '1') ? 'r' : '-';
            } else if (i == 1) {
                secperms += (bit == '1') ? 'w' : '-';
            } else if (i == 2) {
                secperms += (bit == '1') ? 'x' : '-';
            }
        }
        return secperms;
    }
}

```