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package MamsIntro;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;

public class CHMOD {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);
        ArrayList<String> inputLines = new ArrayList<String>(5);
        inputLines.add(input.nextLine());
        inputLines.add(input.nextLine());
        inputLines.add(input.nextLine());
        inputLines.add(input.nextLine());
        inputLines.add(input.nextLine());

        for(int i =0; i<inputLines.size(); i++)
        {
            maindoer(inputLines.get(i));
        }
    }

    public static void maindoer(String inputLine)
    {

        String Output = null;
        String nfinalOutputLet = "";
        String nfinalOutputNum = "";
        for(int i = 2; i<=6; i+=2)
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    {
        long num = inputLine.charAt(i) - 48;
        String inBine = Long.toBinaryString(num);
        while(inBine.length()<3)
        {
            inBine = "0" + inBine;
        }
        char[] inBineCopy = inBine.toCharArray();
        CHMOD.toR(inBineCopy);
        CHMOD.toW(inBineCopy);
        CHMOD.toX(inBineCopy);
        Output = new String(inBineCopy);
        nfinalOutputLet = nfinalOutputLet + Output + " ";
        nfinalOutputNum = nfinalOutputNum + inBine + " ";

    }

    char[] LetCopy = nfinalOutputLet.toCharArray();
    CHMOD.perm(LetCopy, inputLine);
    String FinalOutputL = new String(LetCopy);
    System.out.println(nfinalOutputNum + " and " + FinalOutputL);

}

public static char[] toR(char[] inBineCopy)
{
    if(inBineCopy[0]== '1')
    {
        inBineCopy[0]='r';
    }
}

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    }
    else
    {
        inBineCopy[0]= '-';
    }
    return inBineCopy;
}

public static char[] toW(char[] inBineCopy)
{
    if(inBineCopy[1]== '1')
    {
        inBineCopy[1] = 'w';

    }
    else
    {
        inBineCopy[1] = '-';
    }

    return inBineCopy;
}

public static char[] toX(char[] inBineCopy)
{
    if(inBineCopy[2]== '1')
    {
        inBineCopy[2] = 'x';
    }
    else
    {

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        inBineCopy[2] = '-';
    }
    return inBineCopy;
}

public static char[] perm(char[] LetCopy, String line1)
{
    if(line1.charAt(0)== '1' && LetCopy[2] != '-')
    {
        LetCopy[2] = 's';
    }
    if(line1.charAt(0)== '2' && LetCopy[6] != '-')
    {
        LetCopy[6] = 's';
    }
    if(line1.charAt(0)=='4' && LetCopy[10] != '-')
    {
        LetCopy[10] = 't';
    }
    return LetCopy;
}
}

```