**package** Factory;

**public** **class** Factory {

**public** **static** **void** main(String[] args) {

String d1="0,1,2,3,5,7";

String d2= "0,1,2,4,6,8";

**for**(**int** intCnt=1; intCnt<=31;intCnt++){

String len= Integer.*toString*(intCnt);

System.***out***.println(len.substring(1,1));

**if**(len.length()==1){

**if**(d1.contains(len)){

System.***out***.println("Dice 2:0" + "Dice 1 : " +intCnt);

}**else** **if** (d2.contains(len)){

System.***out***.println("Dice 1:0" + "Dice 2 : " +intCnt);

}**else**{

System.***out***.println("Dice 1:0" + "Dice 2 :reverse of 6 " +intCnt);

}

}**else** **if** (len.substring(0,1).equals("1"))

{

**if**(d1.contains(len.substring(1,2))){

System.***out***.println("Dice 2:1 " + "Dice 1 : " +len.substring(1,2));

}**else** **if** (d2.contains(len.substring(1,2))) {

System.***out***.println("Dice 1:1" +"Dice 2 :"+len.substring(1,2));

}**else** {

System.***out***.println("Dice 1 : 1 " + "Dice 2 : reverse of 6 " +intCnt);

}

}**else** **if** (len.substring(0,1).equals("2")){

**if**(d1.contains(len.substring(1, 2))) {

System.***out***.println("Dice 2: 2 " + " Dice 2 :" +len.substring(1, 2));

}**else** **if** (d2.contains(len.substring(1, 2))){

System.***out***.println("Dice 1:2 " + "Dice 2 :" +len.substring(1, 2));

}**else** {

System.***out***.println("Dice 1:2" + " Dice 2: reverse of 6" +intCnt);

}

}**else** **if**(len.equals("30")){

System.***out***.println("Dice 1:3" +"Dice 2: 0");

}**else** **if** (len.equals("31")){

System.***out***.println("Dice 1:3" +"Dice 2: 1");

}

}

}

}