

## 8288 Chanukah Challenge

The Jewish holiday of Chanukah lasts for eight days and eight nights. On the evening before each day, candles are lit in a *menorah*. On the first evening, one candle is lit, on the second, two are lit, and so on. However, each evening, an extra candle, called the *shammas*, is also lit (in fact, this candle is used to light the other candles). Thus, for the entire holiday, 44 candles are necessary.

But what if Chanukah lasted a different number of days? How many candles would be needed?

For this problem, you will write a program that determines how many candles would be necessary for a Chanukah holiday lasting for a given number of days.

### Input

The first line of input contains a single decimal integer  $P$ , ( $1 \leq P \leq 10000$ ), which is the number of data sets that follow. Each data set should be processed identically and independently.

Each data set consists of a single line of input. It contains the data set number,  $K$ , followed by a single space, followed by a single decimal integer  $N$ , ( $1 \leq N \leq 10000$ ), which gives the number of days to assume for the holiday.

### Output

For each data set there is one line of output. The single output line consists of the data set number,  $K$ , followed by a space followed by the number of candles needed for an  $N$ -day Chanukah holiday.

### Sample Input

```
3
1 8
2 1
3 10
```

### Sample Output

```
1 44
2 2
3 65
```