El campanar de la Torrassa   P70575_en

Segon Concurs de Programació de la UPC - Segona Semifinal (2004-09-15)

El Campanar de la Torrassa is the bell tower of a church of the district of La Torrassa in the city of L'Hospitalet de Llobregat, besides Barcelona. It is well known for continuously annoying its neighbors with the sound of its bells. Day or night, the bells sound every quarter in the traditional way: Suppose it is seven o'clock in the afternoon. In this case, at 19:00 the treble bells sound four times and the bass bells sound seven times. Then, at 19:15 the treble bells sound once. Latter, at 19:30 the treble bells sound twice. Finally, at 19:45 the treble bells sound thrice. Additionally, every noon the bass bells sound 100 times rather than 12 to signal the *Angelus*. Every time the bells start playing, they always finish strictly within the next minute.

(In fact, this is a simplification, because on Saturdays, Sundays and important dates extra bells are played to signal special masses, not to count August the 15th, when bells play all day long.)

A non-governmental organization that fights against acoustic pollution wishes to count the number of times that the bells sound in a large amount of time. Specifically, they need a program that, given a starting time (*h:m*) and a time length expressed in minutes *t*, computes the number of times that the bells sound during this period.

Input

Input consists of several cases, each with three integer numbers *h*, *m* and *t*. You can assume $0 \le h \le 23$, $0 \le m \le 59$ and $0 \le t \le 2^{28}$.

Output

For every case, print the number of times that the bells sound starting at (*h:m*) for a length of *t* minutes.

Sample input

```
19 0 0
19 0 1
10 0 15
10 0 16
0 0 5
12 0 10
23 57 1450
```

Sample output

```
0
11
14
15
16
104
500
```

Problem information

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