
Bells of Torrassa

P88439_en

El Campanario de la Torrassa (see picture) is the bell tower of a church located in the district of La Torrassa in the city of L'Hospitalet de Llobregat. This bell tower 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 in the afternoon (19:00). In this case, at 19:00 the treble bells sound 4 times and the bass bells sound 7 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.

Your task is to simulate the operation of that bell tower.



Input

Input contains different test cases, one per line. Each test case consists of two integers: h and m , which encode an hour (and minutes) of the day and satisfy $0 \leq h \leq 23$ y $0 \leq m \leq 59$.

Output

For each test case $h \ m$, your program must print a line. Specifically, if the bells must sound in that moment, it must print the produced sound. Each bass bell sounds as “dong” and each treble bell sounds as “ding”. Words must be separated by a space. In case that in the hour $h \ m$ any bell must sound, it must print “silence until HH:MM” where “HH:MM” is the next hour where the bells must sound.

Sample input 1

```
19 0
19 5
19 15
19 30
19 44
19 45
20 0
23 59
0 0
12 0
11 59
7 5
```

Sample output 1

```
ding ding ding ding dong dong dong dong dong
silence until 19:15
ding
ding ding
silence until 19:45
```

ding ding ding
ding ding ding ding dong dong dong dong dong dong
silence until 00:00
ding ding ding ding dong dong dong dong dong dong dong
ding ding ding ding dong dong dong dong dong dong dong
silence until 12:00
silence until 07:15

Problem information

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