## 12119 The Bells are Ringing

Perhaps you all have heard the mythical story about Tower of Hanoi (The details of this story is not required to solve this problem): 'There is a tower of Hanoi with 64 disks and three pegs and the preists make one move everyday and the earth will be destroyed when all the pegs have been moved from one peg to the other following the rules of Tower of Hanoi.' In this problem we deal with a similar story - The story of an ancient temple. The ancient temple has three incredibly large bells. At the beginning of time the three bells rang together. Then the three bells never rang together and when they will ring together again the earth will be
 destroyed. The three bells have cycle length of $t_{1}, t_{2}$ and $t_{3}$ (Here $t_{1}<t_{2}<t_{3}$ and all are expressed in miliseconds). By this I mean that the first bell rings at every $t_{1}$ seconds from the beginning, the second bell rings at every $t_{2}$ second from the beginning and the third bell rings at every $t_{3}$ second from the beginning. Also note that the difference of the values of $t_{1}, t_{2}$ and $t_{3}$ is not that much different so that ordinary people think many time that they are ringing together.

Given the time difference between destruction of earth and beginning of time you will have to find the values of $t_{1}, t_{2}$ and $t_{3}$.

## Input

The input file contains at most 600 lines of inputs. Each line contains an integer which denotes (in millisecond) the time difference between the beginning of time and the time of the bells ringing together. Input is terminated by a line containing a single zero. All the input numbers will fit in a 64 bit signed integer.

## Output

For each line of input produce two lines or more of output. The first line contains the serial of output. Each of the next lines contains three integers which denote the values of $t_{1}, t_{2}$ and $t_{3}$ respectively. The value of $t_{1}, t_{2}$ and $t_{3}$ is such that $t_{1}<t_{2}<t_{3}$ and $0<t_{1}, t_{2}, t_{3} \leq 1000000$ and $\left|t_{1}-t_{3}\right| \leq 25$. If you cannot find values of $t_{1}, t_{2}, t_{3}$ with such constraints then print the line "Such bells don't exist" instead. In case there is more than one solution sort the output in ascending order of the value of $t_{1}$, then (in case of a tie) in the ascending order of the value of $t_{2}$ and then (still a tie) in ascending order of the value $t_{3}$. Print a blank line after the output for each test case. Look at the output for sample input for details.

## Sample Input

## Sample Output

Scenario 1:
125
1210
1510
2510

Scenario 2:
Such bells don't exist

