Problem F: Nine

Source: nine.{c,cpp,java}

Randall Munroe from **xkcd.com** pointed out that 9 is the most rarely used key on a microwave. Let's all share the load.

Given a desired cooking time, find a sequence of keys with the greatest number of 9's such that the resulting time has less than 10% error compared to the desired cooking time. In other words, if **T** is the desired cooking time in seconds, and **T9** is the cooking time specified by the found sequence, then 10|T - T9| < T. If there are multiple possibilities, choose the one that has the smallest error (in magnitude). If there are still ties, choose the one that is lexicographically smallest.

For example, for T = 01:15, the times 00:68-00:82 and 1:08-1:22 have less than 10% error. Of these, 00:69, 00:79, 01:09, and 01:19 have the greatest number of 9's, and the ones with the smallest error are 00:79 and 01:19. The lexicographically smaller of these is 00:79.



EVER SINCE I HEARD THE SIMILE "AS NEGLECTED AS THE NINE BUTTON ON THE MICROWAVE" I'VE FOUND MYSELF ADJUSTING COOK TIMES.

Input

The input consists of a number of cases. For each case, the desired cooking time in **MM:SS** format is specified on one line. Each **M** or **S** can be any digit from 0 to 9. The end of input is indicated by 00:00.

Output

For each case, output on a single line the four keys to use as input to the microwave, in MM:SS format.

Sample Input

00:30 01:00 02:00 91:30 46:03 00:00

Sample Output

00:29 00:59 01:59 90:99 49:99