

Problem C

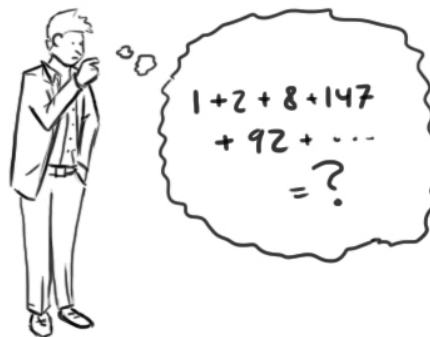
Addition Affliction

Time Limit: 3 seconds

Albert is a Computer Science student that loves math! Unfortunately, despite his love for math, he does not have a very good handle on the basics! He especially has difficulties with addition, an affliction that has plagued him since his youngest days.

Unfortunately for Albert, addition is a common part of life. He would like to finally master the mysterious magic of addition. Albert has noticed that numbers which add to a multiple of 10 are the easiest.

Albert would like you to help him achieve his addition aspirations; he doesn't want you to do all of his work for him (that wouldn't help!), but if you could rearrange some of his practice expressions into something a little easier, he would be very grateful!



Input

Each line of input will be a summation of nonnegative integers in the form

$$x_1 + x_2 + \cdots + x_N$$

for some $N(2 \leq N < 1000)$, where $0 \leq x_i \leq 100000$ for each x_i .

Lines will not contain any whitespace, only digits and the plus symbols.

The input will be terminated by a line containing only 0.

Output

For each line, print the same expression but with the numbers in an easier order: put pairs of numbers that add to a multiple of 10 at the front. That is, if there is a number x_i in the sequence for which $x_i + x_j$ is a multiple of 10 for some other number x_j in the sequence, and x_j is not already paired with another number, then x_i, x_j should appear adjacent to each other before any unpaired numbers.

Note that there may be several correct answers for a given line, e.g. "1+2+4+6" could be rearranged as "4+6+1+2" or "6+4+2+1".

Sample Input**Sample Output**

1+2+3+4+9	1+9+2+3+4
153+214+64+7+26	153+7+64+26+214
1+2+3+4+5	1+2+3+4+5
1951+1569+481+4823+142+4677	1951+1569+4823+4677+481+142
10+9+8+7+2+1	9+1+8+2+7+10
1+3+5+10+15+20+30	10+20+5+15+1+3+30
0	