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In this post, I am going to explain the next combination technique around '過大実
乗法' (Multiplication with Excessive multiplicand) called '過大実省一乗法.'
It is useful when the excessive-multiplicand is simpler than the multiplicand itself (as
I explained in previous post) AND the initial digit of the multiplier is 1.
The principle:
When calculating A*B, if we add some value 'D' to multiplicand 'A' (the sum is called
excessive-multiplicand 'E'), and eliminate the initial digit 1 from multiplier 'B' (let's
call it 'M' for modified-multiplier), the expression would be:
A*B = (E-D) * (10^n + M)
    = 10^n*(E-D) + E*M - D*M
Since 10^n*(E-D) is on the board (although we have to mentally change the decimal point),
all we have to do is add E*M to the board, and subtract D*M from it.
Example: 39698*157=6232586
ABC abcdefg
157 39698 : First, eliminate the initial 1 from the multiplier [A].
0 5 7 ~ 3 9 6 9 8 ~ : ~ W e ~ a r e ~ g o i n g ~ t o ~ p r o c e s s ~ ' - ~ D * M ' ~ t e r m ~ f i r s t ,
    so look at the other side of [e], which is 2,
    multiply this value by [B] (5),
    and subtract the result (10) from [ef].
057 39697 : then multiply 2 by [C] (7), and subtract the result (14) from [fg].
057 3969686 : Look at the other side of [c], which is 3,
    multiply this value by [B] (5),
    and subtract the result (15) from [cd].
057 3954686 : then multiply 3 by [C] (7), and subtract the result (21) from [ef].
0 5 7 ~ 3 9 5 2 5 8 6 ~ : ~ A n d ~ n o w ~ t h e ~ p r o c e s s ~ f o r ~ ' + ~ E * M ' , ~
    so look at the top digit [a] (2) and realize
    the excessive multiplicand is 40000,
    multiply 4 by [B] (5) and add the result to [ab].
057 5952586 : then multiply 4 by [C] (7) and add the result to [bc].
057 6232586 : done.
masaaki
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