

I will take an input which contains multiplicand, multiplier and the base ($2 \leq k \leq 10$). Later I will give an output which contains multiplicand, multiplier and the result of multiplication of these numbers.

I will use the formula for each digit. (digit number * (base number^{digit precedence}))

[For example: 132 in 4 base -> when converting to 10 base -> $1 * 4^2 + 3 * 4^1 + 2 * 4^0 = 30$]

Then I will find the result for both given base and 10 base. When I take the input. I should use linked lists to store the data. Each of node will hold an integer value such as 0 - ... - 9. I will use function to store these values in one place. Also I will use some functions such as malloc which allocates space for data. I will use struct to link linked lists easily. Also one of the important things is that I will add null to after last node when added or deleted some datas. Because it may cause some problems when it is not null. I will also divide the result to digits. Some result can be larger than long type. So I am going to save the result in linked list.

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