

# reversible whole number license key

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Hi,

I am writing a network license for a software program, and want to use a serial code to specify the number of licenses a user has. What this means is that say the user buys 10 licenses, and it given the code 5634853215. They enter this into the computer, and it verifies that it is a correct code and informs them that they have 10 licenses. In order to do this I need an easily reversible mathematical operation that takes one ten digit number e.g. 5634853215 and converts it to 0000000010 (the first 7 zeros are a way of checking that the number is valid, entering in a random number shouldnt give 7 zeros to start with). It cant be anything too obvious like just subtracting a number off the code. I tried using a matrix multiply for each digit, making a vector out of them, but the inverse matrix is ugly, not consisting of whole numbers.

Any ideas?

thanks

Thor