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linear tetranacci pseudo code:

Algorithm: linearT(int k)

Input: an integer k

Output: the associated k th tetranacci number as part of an array

if  $k = 0$  then array returned  $\{1, 0, 0, 0\}$

else

$a = \text{linearT}(k-1)$

    store 4 array slots to variables

    add 4 variables in the first slot of the array

    add the 3 first values to the respective slots following the sumed position

    then return array