# MysteryTwister C3 

THE CRYPTO CHALLENGE CONTEST

## Number Sequence <br> (A REALLY LONG ONE) - PART 3

Author: Viktor Veselovsky
August 2011

Here are the first 251 numbers of a sequence (a1,a2,...,a250, a251):
(1,4,8,13,16,19,25,29,32,35,39,46,49,52,57,61,64,67,71,76,79,82,90, $94,97,100,104,110,113,116,121,125,128,131,135,140,143,146,152,156$, $159,162,166,175,178,181,186,190,193,196,200,205,208,211,218,222$, $225,228,232,238,241,244,249,253,256,259,263,268,271,274,280,284$, $287,290,294,301,304,307,312,316,319,322,326,331,334,337,347,351$, $354,357,361,367,370,373,378,382,385,388,392,397,400,403,409,413$, $416,419,423,431,434,437,442,446,449,452,456,461,464,467,474,478$, $481,484,488,494,497,500,505,509,512,515,519,524,527,530,536,540$, $543,546,550,557,560,563,568,572,575,578,582,587,590,593,601,605$, 608,611,615,621,624,627,632,636,639,642,646,651,654,657,663,667, 670,673,677,688,691,694,699,703,706,709,713,718,721,724,731,735, $738,741,745,751,754,757,762,766,769,772,776,781,784,787,793,797$, 800,803,807,814,817,820,825,829,832,835,839,844,847,850,859,863, 866,869,873,879,882,885,890,894,897,900,904,909,912,915,921,925, 928,931,935,943,946,949,954,958,961,964,968,973,976,979,986,990, 993,996,1000)

## Assignment

Find 100 numbers of this sequence starting with the $10001^{\text {st }}$ number (a10001,..., a10100)

Reduce these numbers modulo 7 .

This reduced sequence is the solution and it is to be entered in the format ( $1,5,0,6, \ldots, 2$ ) without spaces.

