Linear Congruence method for generating Pseudo Random Numbers

Linear Congruential Method is a class of Pseudo Random Number Generator (PRNG) algorithms used for generating sequences of random-like numbers in a specific range. This method can be defined as:

$X_{i+1} = aX_i + c \ \ mod \ \ m$

```
where,

X, is the sequence of pseudo-random numbers
m, ( > 0) the modulus
a, (0, m) the multiplier
c, (0, m) the increment
X0,  [0, m) - Initial value of sequence known as seed

m, a, c, and X0 should be chosen appropriately to get a period almost equal to m.
```