Probability gulakhs

Project description

We use Linear congruential generator PRNG algorithm.

A linear congruential generator (LCG) is an algorithm that yields a sequence of pseudo-randomized numbers calculated with a discontinuous piecewise linear equation.

Also used by java, C++, pascal, visual basic, …

Why we choose LCG?

* LCGs are fast and require minimal memory to retain state
* pass even stringent statistical tests, TestU01's SmallCrush suite, …
* if used to choose points in an n-dimensional space, the points will lie on, at most, (n!⋅m)1/n hyperplanes
* The plane spacing depends on the modulus, and can be reduced by choosing a large enough modulus