Theory

Calculating for any positive integer's n and x $\binom{n}{x} = \frac{n!}{x!(n-x)!}$ the probability for any number in any number of iterations is $\sum_{i=0}^{n} \binom{n}{x}$

as more and more iterations are computed; the graph of the probability of a given number becomes smoother and approaches a normal distribution as a

limit. The normal distribution gives the probability as: $\sqrt{2\pi\sigma}e^{-\left(\frac{(x-\mu)^2}{2\sigma^2}\right)}$ the standard deviation. Certainly, any set of rende where $\mu = \frac{\pi}{2}$ and σ is the standard deviation. Certainly, any set of random numbers may include consecutive numbers. $(d-p+1)10^{(d-p)}$ 10^d where the number of possible So the probability of consecutive numbers is

numbers of d digits which contain one or more sequences of p. When measuring the significance $x^2 = \sum_{s} \frac{\left(Y_s - np_s\right)^2}{\left(Y_s - np_s\right)^2}$

to experimentally discrete results one could use the chi-square $1 \leq s \leq k$ an experiment with *d* degrees of freedom (where d=k-1, one less the number of possible outcomes)

$$\underline{Q}_{n^2, d} = \left[2^{\frac{d}{2}} \Gamma\left(\frac{d}{2}\right)\right]^{-1} \int_{n^2}^{\infty} (t)^{\left(\frac{d}{2}-1\right)} e^{-t} dt$$

is consistent with the null hypothesis and can be calculated as:

Where Γ is the generalization of the factorial function to real and complex arguments.

By Andy Williamson