

P1 – Small Primes

First 64 primes for Loom s_t

Index i : prime[i]

P2 – $\lceil \log_2 n \rceil$ Table

n from 1 to 4096

P3 — Golomb-Rice Examples

Signed mapping $S(z) = 0, 1, -1, 2, -2, \dots$; $y = |S^{-1}(z)|$

For $p \in \{0..4\}$, encode y by $q = \lfloor y / 2^p \rfloor$ (unary) and $r = y \bmod 2^p$ (p bits).

P4 — Mod M Arithmetic

Hand steps for running chain updates

$C_t = (17*C_{t-1} + 23*s_t + \text{seq}) \bmod 1,000,000,007$