# A Bibliography of Pseudorandom Number Generation, Sampling, Selection, Distribution, and Testing

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## Title word cross-reference

**#14** [2315]. **#15949** [892]. **#4059** [1266]. **#8373** [2137].

$(0, 1)$ [1077]. $(0, s)$ [2579, 2980]. $(a^n - 1)/(a - 1)$ [939]. $(j, \epsilon)$ [746]. $(n^2\alpha)$ [2530]. $(n^k\alpha)$ [2531]. $(n\alpha)$ [2530]. $(t, m, s)$ [2081, 2937, 2087, 2388]. $(t, s)$ [2675, 2081, 2379, 2937, 2087]. $(X, Y)$ [3696]. $(X^2 - Y^2)^{1/2}$ [499]. $0.1(0 \times 1)0 \times 9$ [141]. 1 [753, 896, 2890, 173, 306, 728, 3015, 3017]. $1, 2, 3$ [3551]. $1.13198824\ldots$ [2554]. $10,000$ [285]. **$10.00** [170]. $10^{2857}$ [2525]. $10^{435}$ [2078]. $1200\mu$ [3180]. 128 [3206]. 13 [273]. 16 [273]. 2 [2890, 2156, 951, 3142, 2539, 2869, 3019]. 2,000 [87]. **$24.95** [2124]. $2^{-31} - 1$ [856, 952]. $2^{15}$ [2174]. $2^{31} - 1$ [3601, 820, 995, 1028, 1219, 1220]. $2^{31} - 69$ [3444]. $2^{32} - 1$ [1110]. $2^{\alpha}$ [1502, 2275]. $2^{\beta}$ [1341, 1509, 1761]. $2^k$ [2656]. $2^{k-1}$ [2656]. $2^p$ [3301]. $2^p - 1$ [2308]. $2^t$ [3934]. 3 [1817, 3742]. 32 [3687]. 4 [273]. 48

[248]. 5 [273]. **$52.95** [3653]. 64 [3874]. $[0,1]$ [219, 868]. $^{-1}$ [3688]. $^{2}$ [3180]. $_{\tau}$ [2410, 1990]. $a$ [369]. $a = \pm 2^q \pm 2^r$ [2443, 2517]. $a_n$ [664]. $\alpha \geq 1$ [3691]. $\alpha\lambda$ [730, 731]. $b$ [2171, 3395]. $b = 2, 3, 5, 6, 7, 10, 11, 12$ [1057, 1326, 2663]. $b^n \pm 1$ [1057, 1326, 2663]. $\beta = 32$ [1341]. $\beta = 48$ [1341]. $\beta \simeq 32$ [1509]. $\beta \simeq 48$ [1509]. $\left\{\frac{a}{m}j^2\right\}, \left\{\frac{a}{m}(j+\tau)^2\right\}$ [328]. mod1 [301, 302, 407, 656, 739, 661]. mod$n$ [2241]. $C^\infty$ [1285]. $C\exp(-\lambda|x|^\nu)$ [1490]. $\chi^2$ [349, 947, 1107, 1108, 1109, 6, 7]. $D$ [2414, 1837, 3027, 2115]. $d^2$ [93]. $e$ [81, 1528, 87, 372]. $\epsilon$ [1942]. $F_2$ [3061, 3071, 3287, 3874]. $F_{2^w}$ [2870]. $G$ [452, 453]. $\Gamma$ [1240, 1214]. $j$ [2042]. $K$ [2228, 3892, 1478, 3862, 3894, 1795, 2148, 1062, 1343, 1949, 3741, 3772, 1128, 1381, 1998]. $k > 1$ [1370]. $L^2$ [2066, 1994]. $L_2$ [2166]. $L_p$ [2440]. $\lambda$ [2859]. $M$ [1457, 1224, 1190, 849, 469, 1064, 1033, 446, 250, 1374, 2191, 2374, 2109, 2216, 2218, 2305, 1139, 231]. $\mathbf{F}_2$ [3145, 3517]. $\mathbf{F}_{2^w}$ [3018]. $\mathbf{F}_q$ [3264, 3572]. $\mathbf{F}_{q^m}$ [3264, 3572]. $\mathbf{R}^d$ [3997]. $\mathbf{F_2}$ [3518]. $\mathrm{GF}(2^{\mathrm{m}})$ [1587]. $\mu$ [3243]. $N$ [1157, 915, 270, 1331, 1706, 1707, 2262, 727, 3738, 205, 621, 196, 2831, 201, 1544, 3851, 801, 207, 429, 804]. O(3) [1589]. $O(n(1+\log(N/n)))$ [1959]. $P$ [6, 725, 3913, 3988, 3185, 2462, 2209, 3397, 2222, 2406]. $\partial^2 u/\partial x^2 + \partial^2 u/\partial y^2 + (K/y)(\partial u/\partial y) = 0$ [197]. $\pi$ [2903, 81, 1528, 87, 285, 288, 2956]. $\pm 1$ [664]. $\pm 2^{k_1} \pm 2^{k_2}$ [2308]. $\pm 2^{p_1} \pm 2^{p_2}$ [2648]. $q$ [2543]. $S$ [1027, 1900]. $\sigma$ [1589]. $\sqrt{2}$ [410, 441]. $\sum a_n/n$ [664]. $T$ [2610, 2887, 1890, 850, 1900, 1329, 3065, 867, 961, 966, 40]. $U(0,1)$ [2761]. $X(I+1) = AX(I) \bmod 2^{31}1$ [782]. $X/Z$ [3696]. $x^2 \bmod N$ [2025]. $X_{n+1} = a_n X_n + b_n \pmod p$ [1822]. $X_t = X_{t-3p} \oplus X_{t-3q}$ [1512]. $Y/Z$ [3696]. $y = [(a+x)\sin(bx)] \bmod 1$ [2386]. $Z$ [3696]. $Z/nZ$ [1933]. $Z_p$ [1412].

***good*** [2707].

**-adic** [3395, 453, 452, 2406]. **-biased** [1942]. **-Bit** [3206, 3874, 248]. **-concave** [2610]. **-D** [3142]. **-deformed** [2543]. **-dependent** [1942]. **-Detection** [3851]. **-digit** [273]. **-Dimensional** [270, 196, 201, 915, 1544, 1998, 1795, 804, 205, 1331, 3027]. **-discrepancy** [2066]. **-distributed** [1343]. **-Distribution** [966, 1890, 1062]. **-distributions** [1837, 2115]. **-échantillon** [801]. **-estimates** [1457]. **-Fock** [2543]. **-function** [2042, 2859]. **-functions** [1285]. **-homomorphism** [2414]. **-Linear** [3061, 3145, 3874, 3071, 3287, 3517, 3518]. **-model** [1589]. **-net** [2081]. **-Nets** [2937, 2087, 2388]. **-nm** [3687]. **-observation** [1706, 1707]. **-quanta** [1214]. **-Random** [2222]. **-sample** [801]. **-sequence** [1033, 1374, 2374, 2081, 1224, 1190]. **-Sequences** [849, 2579, 2980, 446, 2379, 2937, 2087, 2675, 1064, 2191, 2109, 2216, 2218, 2305]. **-sphere** [1139, 429]. **-step** [1128, 1381]. **-System** [2228]. **-Values** [725, 3185]. **-Vector** [3894, 3862, 3741, 3772]. **-wise** [3892, 1478, 2148, 1949].

**/dev/random** [2745, 2801, 2892]. **/dev/urandom** [2801].

**0.57pJ** [3315]. **0.57pJ/bit** [3315]. **'05** [4163, 4167]. **'07** [4173]. **'08** [4178].

**1** [763, 1066, 1955, 1956, 3426, 3330]. **1.04** [3243]. **1.1** [3765]. **1.6** [3688]. **'10** [4191, 908]. **1013** [3939]. **106** [1109, 842]. **10th** [4021, 4168]. **11** [1335]. **111** [815]. **11th** [4017, 4187, 4099]. **12** [892]. **120** [2888]. **128-bit** [2496, 3199]. **12th** [4167]. **'13** [4213]. **133** [268, 269, 308, 314]. **134** [896]. **13th** [4135]. **14th** [4174, 4102]. **153** [950, 1108, 1109]. **155** [947, 1109]. **157** [998]. **16** [1500, 3026, 933]. **16-Bit** [1288, 1898, 759, 1500, 2212]. **16-bit-PC** [1500]. **160** [2513]. **16th** [4085]. **1750** [1913]. **17th** [4191]. **181** [1861]. **183** [1181, 1048, 1142, 1255]. **193** [1167, 1067]. **1949** [4009]. **1953** [4012]. **1954** [4013]. **1957** [4014]. **1960** [4015]. **1962** [4019]. **1965** [4021]. **1967** [4022]. **1970** [506]. **1971** [4025]. **1974** [4027]. **1976** [4031, 4028]. **1978** [4032]. **1981** [4037]. **1983** [4040, 4043]. **1984** [4047, 4045]. **1986** [4051, 4055]. **1987** [4056]. **1988** [4062, 4061, 4063, 4065, 4066]. **1989** [4071]. **1990** [4072, 4073, 4087]. **1991** [4079, 4080, 4085]. **1992** [4083, 4090, 4091]. **1994** [4101, 4103, 4111, 4104, 4105]. **1995** [4106, 4117, 4108]. **1996** [4131, 4119]. **1997** [4120, 4124]. **1998** [4137, 4130, 4138]. **1999** [4133, 4134]. **1a** [3430].

**2** [196, 221, 2293, 3427]. **2.4GHz** [3439]. **20** [2124, 2463]. **200** [303, 364]. **2000** [4155, 4144, 3156]. **2001** [4150, 4152]. **2002** [4153, 2662, 4160]. **2003** [2936]. **2004** [4158, 2662, 4170]. **2005** [4163, 4172]. **2006** [4181]. **2007** [4173, 3181, 4177]. **2008** [4178, 4180, 4188]. **2009** [4189]. **2010** [4191, 4196]. **2011** [4203]. **2014** [3779, 3818]. **2018** [3887]. **204** [1107]. **205** [1406, 1118]. **20MHz** [2584]. **20th** [4218, 4065, 4066]. **21st** [4130, 2825]. **22** [2914, 3639]. **22nd** [4134]. **235** [321]. **23rd** [4038]. **247** [324]. **24th** [4041]. **25** [2137]. **25th** [4044]. **266** [361, 362, 628]. **267** [363]. **27th** [4176]. **28th** [4059]. **29** [504, 806]. **294** [425]. **29th** [4080, 4064]. **2nd** [4037, 4050].

**3** [3147, 3774, 1976, 3428, 3781]. **3-Key** [2919]. **3.0** [2677]. **3.x** [2314]. **30** [3562]. **30th** [4070, 4091]. **31** [2597]. **31-bit** [771]. **31st** [4076]. **32-Bit** [1236, 2999, 3070, 1769, 3443]. **32-bit-word** [545]. **334** [434, 479]. **33rd** [4086]. **342** [459, 461]. **360** [813, 677, 478, 483, 492, 462]. **360/370** [721]. **369** [529]. **36th** [4158, 4109]. **370** [501, 618]. **37th** [4163, 4118]. **3800** [2120]. **381** [516, 623]. **38th** [4122]. **39th** [4173].

**4** [465, 672, 3429]. **4086** [2904]. **40th** [4178]. **41st** [4143]. **42** [692, 693]. **4217th** [3444]. **4217th-order** [3444]. **425** [596, 697]. **42nd** [4147]. **440** [3112]. **440-nA** [3112]. **441** [644]. **45nm** [3315, 3439]. **46** [2137]. **48** [497]. **48-Bit** [1043, 929]. **488** [674]. **4Gbps** [3315].

**5.0** [1668]. **5.2** [2801]. **500** [3368, 322]. **51st** [4197]. **52** [892]. **52nd** [4212]. **5th** [4179].

**6** [3686]. **60th** [4214]. **61** [1255]. **623-dimensionally** [2373]. **64-bit**

[2246, 760, 2707, 2857, 2537, 3559, 3564]. **647** [1222]. **659** [1324, 2772]. **668** [1358]. **678** [1437]. **6th** [4142].

**701** [155]. **71** [1266]. **712** [1735]. **738** [1893]. **76** [1034]. **780** [2343]. **79** [2170]. **7mW** [3439].

**8-bit** [2584]. **8.8/11.2** [4195]. **800** [3047, 3816]. **800-22** [3430]. **800-90** [3047]. **800-90B** [3816]. **802** [2504]. **806** [2528, 2529]. **8088/8086** [1268]. **80f** [933]. **82** [4039]. **82g** [1066]. **82h** [1034]. **84** [4049]. **85** [2048]. **'86** [4060]. **'87** [4057]. **'88** [4075]. **8th** [4207, 4063].

**'90** [4077, 3047, 2054]. **90/150** [2802]. **90/95** [2674]. **90B** [3816]. **'91** [4085]. **92** [716]. **'93** [4092, 4095]. **'94** [4102, 4103, 4104]. **947** [3735]. **'95** [4108, 4110, 2013]. **958** [3805]. **'96** [4114, 4119]. **'97** [4124, 2452]. **970** [3855]. **978** [3686]. **978-0-521-17561-6** [3686]. **978-0-88385-043-5** [3653]. **97j** [2293]. **'98** [4137, 768, 862]. **9th** [4195].

**=** [4014, 4025].

**A.2.4** [2919]. **AAECC** [4135]. **AAECC-13** [4135]. **AbBT** [1622]. **Absolute** [400, 371]. **Absorption** [290]. **Abstract** [2416, 1162, 1516, 2598, 1633, 1638, 1553, 1195, 3614, 1436, 2509, 1829, 3527, 1241, 2475, 2478]. **abstracts** [4085]. **abuses** [1388]. **AC** [1991]. **Accelerated** [3290, 1879, 3663, 3713, 3672, 3167]. **Accelerating** [2320, 3377, 3746]. **Acceleration** [3867, 2263, 3724, 3909, 1952]. **Accelerator** [3935]. **Acceptance** [1510, 3614, 1120, 975, 3790, 2894, 1006, 1034]. **Acceptance-Complement** [1120]. **Acceptance-Rejection** [1510, 3614, 3790, 2894, 1006, 1034]. **Acceptance/rejection** [975]. **Access** [1791, 2027, 3941, 2194, 1693, 1694, 3150, 2077, 2742]. **according** [11, 694]. **Accumulated** [338, 1986]. **Accuracy** [212, 2750, 1337, 1447, 651, 1182, 2557, 3107, 3540, 2452, 2713, 2936, 3181, 3296, 563, 3749, 573, 629, 2195, 3041]. **Accurate** [3041, 851, 3768, 3106, 600, 3690]. **Achieve** [3900]. **achieving** [440]. **Acknowledgement** [692, 693]. **ACM** [4100, 4051, 4056, 4062, 4072, 4083, 4092, 4101, 4106, 4133, 4140, 4153, 4163, 4173, 4178, 4190, 4199, 4206, 4213, 4080, 4167, 4189, 4104, 674, 501, 596, 516, 644, 361, 618, 3547, 529]. **ACM-SIAM** [4100]. **ACORN** [1475, 1783]. **acquisition** [2271]. **acquisition-processing** [2271]. **ACR** [1521]. **Actel** [3135]. **actions** [2055]. **Active** [3586, 3094]. **Actuarial** [4162]. **Acyclic** [1402]. **Ada** [1403, 2013, 1206, 1721, 1354]. **Adams** [2243]. **Adaptive** [3045, 2045, 2261, 3147, 915, 732, 3754, 3389, 2277, 3741, 3552, 804]. **Add** [1777, 2656, 1925, 1875]. **Add-with-Carry** [1777, 1875]. **Addendum** [1328]. **addition** [2195]. **additional** [803]. **additions** [2061]. **Additive** [2122, 2657, 905, 2243, 200, 185, 2072, 2073, 2862, 455, 632, 470, 555, 598, 599, 1968, 839, 2304, 3571, 3223, 3454]. **adic** [3395, 452, 453, 2406]. **Adjoint**

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**G** [541, 2974, 594, 637, 1956, 1079, 262, 70]. **G5** [380, 391, 434, 674, 596, 479, 644, 362, 363, 364, 618, 461, 628]. **Galois** [2228]. **gambler** [3163]. **Gambling** [2482, 2654, 3709]. **Game** [2871, 3924, 2823, 3150]. **game-playing** [2823]. **gaming** [489]. **Gamma** [670, 3978, 752, 814, 542, 819, 906, 1272, 766, 867, 919, 2369, 2526, 1375, 3949, 2208, 1044, 534, 887, 888, 1015, 712, 805, 3706, 892, 897, 1261, 1053, 853, 377, 2837, 1032, 1231, 331, 961, 3068, 3846, 785, 3400, 828, 1078, 2086, 565, 617, 701, 880, 980, 747, 1016, 3209, 846, 748, 713, 1018, 761, 683, 3691]. **gamma-distributed** [331, 683]. **Gamma-distribution** [761]. **gamma-rays** [1078]. **gammaverteilten** [331]. **gap** [235]. **gas** [813, 677, 2300]. **GASPRNG** [3672]. **Gate** [3147, 2616, 3040]. **Gates** [3102, 3379]. **Gateway** [4149, 4043, 4090]. **Gathering** [2658]. **Gauss** [1852]. **Gaussian** [3106, 2657, 3939, 897, 1019, 1406, 674, 1100, 3247, 2492, 3720, 1609, 3057, 3259, 298, 350, 2834, 3609, 2269, 3729, 2271, 2512, 3388, 2696, 2852, 2926, 3005, 3006, 3170, 3531, 3624, 3540, 3690, 3768, 3810, 651, 1637, 451, 1038, 3740, 876, 365, 3021, 3431, 3432, 3746, 534, 396, 3096, 3211, 3705, 3749, 3785, 1876, 3451, 1584, 889, 2960, 2306, 2400]. **Gaussian-distributed** [3388]. **Gbit** [3562]. **Gbit/s** [3562]. **GCD** [1262, 1827, 1185, 1298, 1989, 1992, 2105, 1879]. **GCDs** [3175]. **GECCO** [4165, 4152]. **GECCO-2001** [4152]. **geeks** [2785]. **gems** [4201, 4211, 4182]. **Gen2** [3243, 3434]. **généateurs** [4006]. **General** [946, 501, 1930, 1931, 2052, 3805, 3170, 524, 106, 1081, 847, 3224, 2311, 4081, 721, 3765, 385, 968, 1249, 3091, 3557, 3886, 618]. **General-Purpose** [1081]. **Generalised** [2172, 897]. **Generalization** [444, 238]. **generalizations** [3603]. **Generalized** [3863, 1209, 1328, 1701, 2830, 3260, 1369, 648, 388, 3303, 2735, 1019, 3925, 1894, 3242, 1799, 3720, 1919, 2757, 410, 441, 1351, 3514, 2837, 3729, 1940, 3068, 2062, 3169, 3531, 1850, 1297, 2632, 2726, 2941, 3027, 2732, 1062]. **Generate** [1320, 1022, 1096, 1893, 2590, 1526, 3708, 1886, 2410, 772, 2168, 1229, 3886, 1587, 1880, 1671, 2008]. **Generated** [3232, 3348, 267, 244, 1069, 613, 3777, 373, 3576, 1313, 1786, 581, 755, 1700, 438, 471, 585, 3603, 1419, 1503, 242, 765, 1344, 3059, 638, 1937, 1033, 2275, 2061, 2062, 1174, 3536, 2187, 2368, 695, 797, 1184, 1462, 1557, 2534, 3189, 3638, 926, 836, 1041, 3555, 2886, 233, 2309]. **generates** [2617, 2946]. **générateurs** [1367, 2648, 2539, 2184]. **Generating** [1018, 2123, 2226, 814, 1679, 3828, 2890, 1596, 1788, 899, 945, 3590, 542, 1099, 1895, 2236, 852, 3719, 3366, 3758, 270, 196, 1210, 1211, 1606, 1798, 2495, 992, 1273, 3140, 153, 323, 408, 3510, 3511, 3926, 478, 245, 201, 1938, 3729, 3730, 155, 2512, 1947, 2059, 777, 1728, 1729, 1120, 1007, 1839, 3531, 309, 2067, 3540, 251, 870, 253, 254, 280, 281, 311, 335, 788, 966, 1126, 2369, 2526, 1642, 2076,

791, 1375, 3632, 831, 3544, 1293, 1376, 204, 205, 524, 2791, 1561, 1564, 3417, 2459, 1978, 2093, 527, 619, 702, 3310, 2207, 1247, 2208, 1091]. **Generating** [460, 2215, 1136, 626, 2301, 2549, 2476, 1310, 847, 2115, 1141, 713, 2957, 3038, 1393, 1050, 2562, 3753, 675, 1901, 1101, 1103, 767, 1926, 1227, 3610, 94, 1521, 1826, 3614, 1533, 961, 1834, 918, 3068, 1449, 2611, 3624, 785, 334, 226, 255, 283, 336, 828, 1124, 2370, 2527, 3813, 488, 2376, 3695, 920, 3013, 2381, 565, 617, 662, 344, 1864, 701, 621, 2386, 566, 3780, 1089, 880, 980, 2803, 1576, 3974, 747, 845, 193, 167, 1666, 4008, 711, 1475, 3976, 2556, 3656, 1883]. **Generation** [3466, 3892, 1017, 1398, 2408, 3859, 1260, 2819, 3711, 849, 541, 752, 753, 893, 894, 895, 896, 3475, 2315, 2892, 2968, 1322, 2231, 1487, 2320, 2488, 2322, 2141, 3489, 851, 757, 2570, 819, 1100, 1269, 759, 216, 547, 469, 1330, 2026, 1499, 2493, 1102, 1212, 2147, 2752, 2975, 3997, 634, 3258, 1060, 1335, 1216, 2036, 3723, 2422, 1106, 2337, 2980, 91, 92, 2678, 1924, 2340, 594, 2341, 2758, 3267, 637, 444, 2342, 2588, 325, 2269, 1723, 1936, 2842, 3615, 3149, 2593, 596, 1357, 2691, 330, 2693, 2172, 2694, 1072, 1359, 3617, 3618, 1948, 865, 1626].
**Generation** [3944, 776, 825, 867, 1535, 2276, 1451, 2604, 2850, 3002, 3166, 827, 3735, 1175, 3911, 3293, 249, 3688, 691, 1635, 1741, 3810, 3627, 2188, 1846, 2858, 2072, 2073, 3009, 451, 2192, 2863, 653, 607, 734, 1182, 3080, 131, 187, 1079, 2538, 3637, 3816, 608, 1756, 2084, 2198, 658, 697, 227, 3947, 1081, 663, 3851, 3949, 3916, 260, 1984, 3309, 1387, 1655, 1012, 2945, 3745, 1569, 3089, 2545, 287, 841, 879, 976, 977, 978, 979, 1014, 1092, 1192, 3438, 1990, 1870, 2949, 627, 885, 1250, 1774, 3206, 570, 2303, 3093, 3562, 3854, 3885, 887, 888].
**Generation**
[1015, 2646, 136, 165, 1778, 3097, 3211, 1876, 3214, 3215, 2219, 426, 1140, 1195, 537, 538, 1667, 712, 2480, 1590, 3655, 3824, 3578, 3790, 631, 3994, 1258, 431, 2485, 3861, 1483, 1787, 3110, 3233, 3791, 1890, 1321, 2967, 3476, 3477, 3662, 3663, 3664, 3713, 1261, 1891, 2130, 3042, 3585, 349, 3114, 987, 2893, 3666, 850, 3897, 2138, 3117, 817, 1055, 1892, 182, 1490, 1410, 946, 905, 1692, 401, 1793, 3833, 402, 2414, 2324, 3048, 2023, 2326, 468, 1329, 1331, 989, 1605, 1703, 2830, 3367, 990, 991, 1024, 1104, 1213, 1704, 1705, 1799, 2244, 3254, 3720, 994, 1153].
**generation**
[1417, 218, 2038, 2157, 322, 2832, 1421, 2425, 764, 553, 1064, 1280, 1424, 1512, 2983, 555, 185, 1282, 1350, 639, 2836, 3674, 3906, 3381, 3800, 3759, 2992, 2054, 1068, 1823, 2505, 2689, 2770, 1433, 3148, 1032, 202, 1436, 1725, 1523, 1524, 824, 1070, 3930, 118, 1171, 1232, 3158, 1003, 3945, 1444, 779, 1446, 3985, 1006, 1034, 3842, 1957, 2361, 2364, 2849, 3621, 3844, 1837, 129, 3622, 4001, 3687, 1452, 3968, 3766, 3809, 1237, 158, 1454, 3768, 2523, 789, 1075, 3691, 1848, 1968, 2449, 2528, 2529, 1849, 160, 130, 1127, 3634, 3815, 561, 562, 1647, 1754, 1755].
**generation**
[1972, 2083, 2085, 615, 3304, 876, 3698, 418, 3850, 490, 3776, 1080, 1040, 3546, 3852, 3021, 3423, 3022, 1086, 1042, 3025, 3087, 931, 973, 3991, 1190, 878, 2544, 975, 3028, 3746, 2300, 1193, 983, 149, 2107, 3563, 2218, 2552, 1472, 3036, 3098, 3705, 1580, 2553, 1308, 3888, 1139, 1309, 846, 3652, 573, 629, 668, 710, 3334, 3103, 2555, 3574, 3654, 2404, 1589, 1253, 2406, 2655, 2740, 3797, 1582, 3332,

1892, 322, 1580, 1500, 1001, 622, 890, 759, 1517, 1531, 1532, 1304, 2974, 3050]. **Generations** [3487, 3529, 3244, 2393]. **Generator** [3579, 1146, 3467, 1200, 1889, 3470, 3232, 3348, 2228, 3112, 2128, 295, 3479, 3586, 754, 3756, 3483, 1202, 3592, 1324, 902, 501, 1411, 818, 1492, 3492, 3362, 3979, 2018, 3126, 3243, 3364, 3957, 3996, 3597, 2022, 2416, 1151, 1601, 2325, 3247, 1905, 2901, 3901, 1607, 2753, 271, 2149, 3053, 3054, 3055, 3135, 3502, 2671, 2421, 2756, 3505, 3963, 1156, 3141, 2160, 3508, 1511, 3376, 821, 2499, 2681, 2908, 1346, 1426, 1514, 2431, 3377, 200, 243, 683, 1429, 3142, 3379, 3380, 3271, 507, 2989, 1283, 2436, 3273, 2839, 354, 3984, 1354, 3519, 1117, 3612, 3147, 2994, 1824, 3998, 2771]. **Generator** [1622, 3763, 2438, 3281, 1828, 3155, 1530, 1625, 3159, 3732, 2919, 2920, 3526, 1005, 332, 480, 1288, 3946, 3620, 3000, 646, 1735, 1736, 3173, 3807, 2931, 3398, 1544, 519, 520, 651, 2525, 1077, 2071, 2190, 1458, 1181, 2375, 2194, 1851, 3633, 3545, 3298, 1861, 3407, 3408, 3188, 3409, 3848, 3989, 925, 2382, 3085, 3086, 740, 1980, 3642, 838, 929, 1043, 229, 1568, 3950, 3432, 3199, 3647, 3311, 1191, 529, 530, 744, 932, 1572, 1573, 2390, 1574, 2103, 2639, 3031, 982, 2468, 3315, 3439, 886, 3033, 2108, 2879, 3562, 3094, 3207, 3208, 3320, 1471, 3210, 3321, 3785, 3213, 3449, 3324]. **Generator** [3325, 1581, 3326, 3328, 2113, 1668, 3333, 3335, 3573, 427, 1048, 1142, 1312, 1783, 3455, 3225, 3337, 3338, 3457, 3228, 3339, 3230, 3459, 3342, 1255, 3343, 3369, 2743, 3344, 2558, 1399, 812, 3346, 1593, 3893, 3231, 3106, 1675, 3109, 813, 3468, 3469, 2011, 2012, 2312, 2889, 1482, 3924, 2229, 3712, 3995, 3925, 1051, 3352, 1485, 465, 3481, 2894, 3667, 1683, 3116, 2895, 3755, 3237, 3356, 3117, 3118, 3238, 3239, 3485, 3486, 1409, 674, 1098, 3047, 632, 3240, 3757, 3241, 1600, 1898, 3361, 1412, 545, 3242, 3493, 1268, 320, 3128, 676, 677, 1696, 2829, 3130, 2025, 3496, 1413, 2492]. **generator** [3497, 1797, 3368, 989, 2669, 3669, 470, 3500, 3959, 3960, 551, 3257, 1105, 3981, 3372, 3137, 3057, 908, 1502, 1617, 1713, 1217, 1276, 1340, 760, 3504, 2907, 3724, 474, 721, 3506, 1508, 2582, 3725, 1279, 2834, 1343, 2338, 3672, 2584, 3839, 2683, 2434, 1163, 379, 411, 3378, 1518, 771, 773, 3269, 3270, 1351, 2046, 2164, 3060, 3609, 3965, 3272, 2048, 2049, 3840, 3516, 3276, 3520, 1932, 2350, 1935, 2917, 1939, 2504, 3065, 3148, 3280, 3680, 1230, 1621, 224, 382, 2271, 1231, 2437, 154, 2351, 1941, 2170, 2483, 2510, 3524, 2772, 1286, 1118, 3388, 3282, 1440]. **generator** [2175, 2176, 2275, 3156, 3157, 3283, 3160, 2513, 3909, 1004, 1445, 1628, 2921, 598, 599, 248, 781, 1121, 1365, 3390, 2281, 3284, 3391, 1008, 3165, 3285, 3286, 782, 2063, 2852, 2853, 2926, 3005, 3006, 2521, 1542, 483, 2610, 3532, 3533, 2932, 1841, 2854, 3396, 3535, 3538, 3808, 2185, 2705, 1960, 600, 1634, 649, 3539, 3690, 3294, 1546, 1547, 2287, 2707, 3401, 2859, 3542, 1967, 3739, 2373, 4003, 3543, 792, 454, 830, 2716, 793, 1078, 3404, 921, 832, 3405, 833, 3299, 3406, 1010, 1245, 3410, 659, 3192, 3697, 3083, 2203, 3306, 1463, 162, 491, 525, 3419, 968, 1652, 3193, 3882, 2384, 2540]. **generator** [2092, 1300, 800, 618, 2541, 1981, 3422, 620, 367, 3549, 1654, 3024, 2875, 2876, 3026, 1656, 3646, 703, 3783, 3820, 3027, 707, 1769, 2389, 3434, 492, 3552, 3553, 1660, 2102, 2212, 2213, 2637, 2947, 3972, 1868, 3436, 843, 1869, 289, 2948, 2466, 2640, 2805, 2550, 208, 2807, 3092, 2950, 3936, 3561, 2731, 1776, 2732,

2733, 2734, 2809, 2951, 2952, 3319, 3443, 3444, 3209, 3445, 3446, 1194, 2396, 3323, 1779, 3953, 2477, 3099, 3327, 3450, 3651, 3218, 3219, 3453, 3568, 3569, 1585, 3037, 3221, 3336, 3223, 1784, 3575, 3226, 3458, 3040, 3227, 3891, 2741, 2888, 3577, 3461, 2960, 3977, 3707, 1256]. **generator** [1592, 2309, 2961, 1884, 3499, 3602, 4000, 2002, 1215, 459, 461, 3216, 3331]. **Generatoren** [1050, 1052]. **Generators** [1394, 2560, 2310, 2817, 293, 3978, 2122, 2225, 2964, 3347, 1479, 3659, 3827, 3234, 3111, 2659, 2314, 3113, 2746, 2968, 578, 2132, 3351, 4006, 3478, 1598, 2233, 3589, 2136, 900, 3864, 3940, 1408, 3358, 3716, 2826, 2971, 3119, 2140, 903, 904, 3120, 1206, 2415, 906, 3365, 2417, 1209, 1270, 1328, 3129, 2900, 403, 2575, 1698, 3251, 1496, 1910, 1333, 1701, 1911, 2242, 3132, 3134, 3600, 3601, 3870, 2670, 720, 3604, 1336, 2031, 2151, 2152, 1418, 1337, 1612, 3138, 2041, 3503, 3941, 2676, 2982, 3607, 763, 820, 995, 1028, 1110, 1509, 1222, 722, 1113, 1812, 1513, 2986, 304, 768]. **Generators** [769, 1815, 2760, 2761, 2910, 3608, 3673, 3983, 3676, 2047, 2050, 2165, 3061, 3145, 3874, 3062, 2266, 2592, 2056, 2915, 862, 3385, 3967, 279, 327, 3928, 3929, 2695, 2354, 2177, 3684, 2597, 558, 2598, 1538, 1236, 1369, 1370, 1733, 2183, 2283, 2359, 2365, 2443, 2444, 2445, 2516, 2517, 2518, 2605, 2701, 2702, 3004, 3071, 3073, 3287, 3530, 3736, 3931, 4007, 3804, 1732, 3291, 3171, 2703, 2929, 2930, 3174, 3625, 3397, 2366, 4002, 1633, 2454, 3689, 358, 3811, 3812, 1178, 1180, 1845, 1847, 2781, 2711, 3180, 1640, 2715, 3693, 1461, 1549, 1551, 1748, 1292, 2196, 2618, 2789, 1854, 2625]. **Generators** [2722, 3637, 736, 871, 610, 654, 794, 795, 3636, 1859, 3775, 3416, 1384, 3085, 1976, 1082, 1766, 3779, 3818, 419, 1467, 2800, 3426, 3427, 3428, 3429, 2098, 3196, 802, 2633, 3430, 3198, 1657, 3431, 2099, 3312, 4004, 1090, 2463, 2635, 3029, 2214, 569, 2471, 2473, 535, 2643, 2644, 2394, 2881, 1392, 1577, 1777, 2000, 1137, 3447, 572, 2812, 3100, 1664, 1665, 2220, 1877, 2815, 3822, 805, 1311, 2116, 2482, 2654, 427, 1669, 428, 494, 3706, 848, 1673, 2407, 1050, 1144, 1198, 1313, 1315, 1477, 3657, 2656, 1885, 2484, 3107, 3108, 3825, 1259, 1400, 1319, 3751, 498]. **generators** [3658, 2125, 3583, 2127, 1678, 3110, 1680, 2313, 3474, 3661, 3792, 2316, 3584, 3664, 1052, 3042, 3585, 3714, 3350, 3235, 2567, 2014, 3793, 3115, 1684, 1147, 1053, 1406, 2896, 3865, 1054, 2897, 1203, 2016, 1688, 2662, 2748, 2972, 3046, 2413, 905, 1491, 1691, 2898, 1205, 718, 3124, 3718, 1902, 3127, 3899, 3668, 3495, 1903, 2145, 2237, 546, 2238, 1907, 2024, 2146, 2239, 1023, 1908, 3250, 2327, 1332, 1497, 1498, 3252, 1415, 1494, 1495, 3498, 1604, 1702, 2751, 2902, 3133, 3253, 3835, 1334, 1416, 633, 2903, 3255, 3256, 1608, 406, 1417, 2754, 2245, 2246, 2496, 1501, 3259, 1419, 1420]. **generators** [1504, 1710, 1339, 2905, 1922, 1923, 2040, 2158, 2255, 2334, 2335, 2424, 2576, 2577, 1717, 1158, 1810, 856, 951, 952, 1219, 1220, 1341, 1811, 2043, 3838, 439, 1030, 275, 2339, 859, 997, 2909, 3059, 3839, 1348, 3726, 2911, 3512, 2762, 1721, 1816, 770, 476, 1227, 1282, 1350, 2586, 2685, 2764, 2765, 3143, 3675, 3382, 1519, 3383, 1430, 1818, 1819, 1928, 685, 3966, 3517, 3518, 1929, 2053, 2267, 2268, 2347, 2591, 3841, 1431, 2270, 3679, 775, 3942, 864, 3384, 3279, 1432, 1940, 3522, 1169, 3682, 1724, 2507, 2508, 2995, 1525, 356, 383, 2171, 2918]. **generators** [1830, 2174, 2273, 2274, 2352, 2353, 3525, 1002, 3158, 1442, 2845,

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[4053, 595, 2934, 837, 69, 88, 102, 3124, 1161, 1065, 1172, 98, 624, 19]. **Goodness-of-Fit** [2934, 837, 4053, 3124, 1161, 1065, 1172, 624]. **Gossip** [3760]. **Gowers** [3534]. **Gozd** [4119]. **GP** [4152, 3640]. **GP-2001** [4152]. **GP-GPU** [3640]. **GPGPU** [3646]. **GPU** [3751, 3475, 3663, 3713, 3672, 3377, 3759, 4201, 4211, 3909, 3626, 4182, 3418, 3640, 3546, 3462]. **GPU-based** [3909]. **GPU-enabled** [3418]. **GPUs** [3713, 3492, 3764, 3883]. **Gradient** [3277, 1541]. **Graduate** [4138]. **Grand** [4130]. **Grande** [2417]. **Granular** [3917]. **Graph** [2981, 517, 1900, 2905, 2042, 2833, 1943, 1996]. **Graphic** [3433, 3700, 3352]. **Graphical** [1469, 1659, 1775]. **Graphics** [3498, 3418, 3350, 3666, 3165, 3634, 1465, 1653, 3463, 3578]. **Graphs** [3941, 1888, 2167]. **gray** [1707]. **gray-scale** [1707]. **Greater** [896, 2208, 469]. **Greatest** [511, 1287, 1119, 1085, 750]. **Greece** [4177]. **Greedy** [3440]. **Green** [1303]. **grenades** [2355]. **Grenoble** [4031]. **gretl** [3655]. **Grid** [1212, 2856, 3229]. **GRNG** [3785]. **Group** [1978, 778, 3527, 3089]. **Group-Valued** [1978]. **Grouped** [837, 42]. **grouping** [50]. **Groups** [1904, 2681, 2606, 2014, 1520, 3628]. **growth** [3411]. **Guangdong** [4202]. **guarantee** [1278]. **guaranteed** [3749]. **Guarantees** [1720, 2007]. **Guest** [2326, 3101]. **Guide** [3582, 1056, 1264, 2605, 2702, 2620, 1015, 2181, 3073, 2619]. **Guideline** [3944]. **Guidelines** [1720, 1570]. **Guitar** [2750].

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[1748, 1292, 3740, 1182, 3080, 1079, 1854, 2538, 2625, 2722, 3637, 608, 736, 871, 2289, 3408, 654, 794, 795, 3636, 1756, 1859, 2084, 2198, 3848, 1759, 68, 1382, 658, 3989, 925, 3416, 1384, 3947, 1976, 1652, 1187, 1082, 740, 4078, 1766, 1980, 3642, 3779, 3818, 1984, 419, 1467, 838, 3309, 1387, 2800, 929, 1043, 3426, 3427, 3428, 3429, 2098, 229, 3196, 930, 1012, 802, 2633, 3430, 3431, 3432, 3199, 3647, 2945, 2099, 3745, 3311, 3312, 1191, 2463, 2635, 530, 3201, 932, 4171, 3029, 881, 882, 1572, 1573, 1574, 2103, 3951, 3031, 982, 883, 3204, 2214, 1870, 569]. **Number** [2468, 2471, 2473, 627, 885, 1250, 3315, 3439, 886, 535, 3206, 2108, 3562, 3094, 3854, 3885, 2644, 2646, 2881, 3320, 1392, 1471, 2000, 3210, 3321, 1137, 3097, 3211, 3447, 3785, 3213, 3324, 3325, 572, 2812, 1664, 3326, 3216, 1665, 2220, 3328, 1047, 426, 1877, 2113, 2815, 1140, 1195, 3220, 1668, 3653, 3333, 1311, 2480, 2116, 2482, 2654, 3335, 3573, 427, 1048, 1142, 1312, 2958, 1783, 88, 3455, 3225, 3337, 1590, 3706, 3338, 3457, 3228, 3655, 3339, 3230, 3459, 848, 3342, 4025, 1255, 3343, 2407, 3369, 2743, 3344, 2558, 1144, 1198, 1315, 1477, 3657, 2656, 1399, 812, 3346]. **number**
[3994, 1258, 3107, 1319, 1675, 813, 3468, 3469, 3751, 2011, 1888, 498, 2485, 3658, 2125, 2312, 3861, 1678, 1482, 3233, 3924, 2313, 3474, 2229, 3792, 2316, 3995, 3925, 2967, 3476, 3477, 3584, 3663, 3664, 3713, 1051, 1052, 3042, 3585, 349, 3350, 3793, 1485, 465, 672, 3481, 3115, 3666, 3667, 1683, 3116, 1684, 3755, 1489, 3236, 3237, 3356, 1406, 2896, 3897, 2138, 3117, 3238, 1054, 3485, 817, 1055, 1892, 1203, 2016, 674, 1688, 2662, 2748, 2972, 3046, 1098, 1410, 3047, 3717, 2413, 2749, 4126, 632, 905, 1491, 1691, 4084, 1692, 2898, 1693, 1694, 3240, 3241, 1205, 3833, 402, 1600]. **number**
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[454, 455, 830, 3695, 793, 3297, 1078, 1127, 3404, 921, 832, 3299, 609, 3634, 3406, 3014, 611, 1010, 655, 1128, 1297, 1647, 1754, 1755, 2083, 2536, 2621, 2721, 3191, 3017, 3304, 3410, 2868, 3411, 3412, 616, 659, 3192, 876, 3698, 3083, 2539, 2870, 2940, 3415, 2203, 3306, 3776, 1463, 1130, 491, 525, 1080, 1299, 1464, 1760, 2091, 968, 1386, 3193, 3882, 2540, 2092, 564, 3546, 2094, 1300, 3420, 800, 3020, 3852, 1131, 618, 2541, 1981, 3423, 260, 1132, 620, 367, 839, 3549, 2385, 1654, 3883, 3022, 1087, 1565, 3024, 1088, 2727, 3087, 1656, 931].
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[3323, 167, 2955, 3953, 2477, 1663, 1308, 985, 3099, 2813, 3954, 3450, 3452, 1093, 2112, 1094, 3652, 3937, 2554, 3569, 232, 1587, 1878, 3037, 3570, 1782, 2653, 3334, 2117, 2223, 3336, 2005, 462, 2959, 3103, 2555, 3223, 3454, 3574, 3654, 1784, 2406, 2308, 2655, 2740, 3039, 3456, 3226, 3976, 3458, 3040, 3227, 3891, 2741, 2888, 2742, 3340, 3341, 3461, 2960, 3977, 3463, 3707, 1256, 1592, 575, 2961, 3797, 3499, 3602, 4000]. **Number-theoretic** [2289]. **Numbers**
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[2016, 674, 2413, 905, 104, 3757, 3361, 718, 3718, 3128, 759, 3248, 1023, 3496, 1414, 3251, 3497, 297, 3252, 3835, 1334, 438, 549, 585, 3256, 406, 113, 218, 1420, 1217, 1276, 1339, 322, 2907, 3903, 153, 1278, 242, 2043, 184, 765, 767, 1163,

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**Q.R.N.G.** [3471]. **QRNG** [4005]. **Qs** [3611]. **Quadratic** [2033, 2037, 2252, 658, 2088, 1650, 842, 1204, 1614, 1714, 1917, 2034, 2330, 1277, 2253, 1066, 1123, 971]. **Quadrature** [915, 786, 732, 1038, 396, 2503]. **Quality** [2135, 3495, 1825, 3929, 2691, 3763, 2071, 1090, 3097, 3213, 2958, 3825, 3235, 3352, 1908, 2577, 1937, 1941, 2170, 3165, 3285, 1960, 3539, 1967, 607, 2464, 2465, 2476, 2553, 2959, 2961]. **quanta** [1214]. **Quantendynamik** [11]. **Quantifiers** [3252]. **Quantis** [3650]. **Quantitative** [3113, 739, 4192, 3739]. **quantity** [227]. **Quantum** [3465, 3466, 3579, 2819, 3470, 3489, 3121, 3723, 3376, 3841, 3928, 1623, 3157, 3390, 3620, 3689, 3627, 3814, 3989, 1984, 3549, 3745, 530, 2640, 3092, 3560, 3100, 3336, 3955, 4000, 3344, 3580, 3360, 3669, 377, 3137, 3671, 3839, 3384, 3386, 2510, 3524, 3156, 11, 3632, 3695, 3406, 3423, 3991, 3436, 2805, 2550, 3317, 3563, 3323, 3953, 3327, 3652, 3569, 3037, 3334]. **Quantum-Mechanical** [530]. **Quantum-Safe** [3989]. **Quantumlike** [704]. **quark** [4121]. **'quasi** [2578, 902, 583, 3373, 2424, 116, 3999, 4181, 4188, 2779, 2080, 873, 1756, 4131, 4170, 1466, 2205, 1247, 1572, 1870, 1575, 3747, 1993, 2395, 315, 2885, 1310, 464, 1597, 2232, 901, 4193, 3871, 4155, 1351, 221, 222, 324, 1820, 2344, 4127, 2503, 2271, 2272, 2600, 2700, 3392, 2607, 1550, 3881, 4111, 4138, 4160, 2869, 3701, 1660, 1990, 1671, 495, 1256, 2850, 3166, 99]. **Quasi-** [1466]. **Quasi-Convergent** [315]. **Quasi-Monte** [4181, 4188, 4131, 4170, 1870, 3373, 2424, 2080, 873, 1756, 2205, 1575, 3747, 2395, 2885, 464, 4193, 4155, 4111, 4138, 4160, 901, 1820, 2503, 2700, 3392, 2607, 3881, 2869, 495, 2850, 3166]. **Quasi-Monte-Carlo** [99]. **Quasi-Random** [902, 3999, 1247, 1993, 1310, 583, 116, 1572, 1597, 2232, 3871, 1351, 221, 222, 324, 2344, 4127, 2272, 2600, 1550, 3701, 1660, 1990, 1671, 1256]. **quasi-white** [2271]. **quasicrystals** [2685]. **Quasigroup** [3077]. **Quasigroups** [3511]. **Quasirandom** [2561, 1324, 2140, 3491, 1222, 2200, 2872, 1773, 3244, 2772, 1371, 1857, 1860, 1871, 2104, 574]. **Quaternion** [3451]. **quatrième** [4014]. **Quebec** [4101, 4153]. **Query** [449]. **Quest** [1347, 3472]. **questions** [85]. **Queue** [988, 1955, 1956, 1020, 2757, 963, 3330]. **Queueing** [1402, 1241]. **Queuing** [1484, 620, 802]. **Quick** [2031]. **QuickCheck** [3879]. **Quickly** [1926]. **Quicksort** [2494]. **Quinary** [925]. **Quincunx** [3421]. **Quintessential** [3421]. **quintic** [3057]. **quotient** [1239]. **quotients** [3603, 1242]. **QX** [4000].

**R** [2137, 3939, 3719, 3170, 3292]. **R16** [806]. **R18** [769]. **R24** [862]. **R52**

[1108]. **R53** [1109]. **R57** [1167]. **R58** [1181]. **Rabin** [1318]. **Racah** [424]. **Rackoff** [1850]. **Radial** [348]. **Radiation** [338, 11]. **Radical** [324]. **Radical-inverse** [324]. **radio** [497, 481]. **radioactive** [2886]. **Radisson** [4055]. **Radix** [2171]. **Radix-** [2171]. **RAGE** [3086]. **RAGuard** [3922]. **rake** [3276]. **Raleigh** [4091]. **Ralley** [1079]. **Ramage** [2882]. **Raman** [3489, 3723]. **RAMs** [3272]. **Ramsey** [2397]. **RAN1** [2229, 2312]. **Rand** [1299, 71, 89, 3222, 1364]. **RandNLA** [3799]. **Random** [3465, 3466, 3579, 1394, 3345, 1257, 1316, 496, 811, 1145, 1398, 2310, 1146, 3467, 577, 398, 293, 3978, 2122, 2225, 3709, 1479, 1677, 1200, 103, 108, 109, 110, 111, 123, 124, 125, 126, 891, 2485, 2819, 3470, 3710, 3711, 3659, 3894, 3939, 541, 752, 753, 814, 893, 894, 895, 896, 942, 3110, 3791, 1320, 3828, 2564, 2659, 12, 3112, 2128, 2315, 3113, 2746, 2892, 2566, 2968, 3829, 3830, 295, 267, 349, 2132, 3351, 3352, 4006, 3478, 2821, 3043, 3479, 3586, 754, 1322, 3480, 400, 499, 580, 1486, 434, 2231, 2409, 180, 816, 945, 1598, 1684]. **Random** [2135, 2233, 2319, 2411, 2136, 1487, 1147, 900, 1405, 543, 3756, 2320, 3715, 1022, 1096, 1202, 3485, 181, 237, 3357, 1408, 3487, 2321, 2661, 2322, 2748, 2826, 2971, 3119, 902, 319, 1410, 1099, 2827, 3488, 2141, 2142, 1791, 3120, 1491, 3489, 239, 240, 501, 1411, 1895, 2898, 1693, 1694, 2236, 1492, 851, 183, 3594, 757, 402, 758, 3492, 1206, 584, 3362, 3979, 2415, 2570, 3126, 3243, 3364, 3595, 3957, 3996, 2324, 3365, 3494, 3366, 3596, 376, 2571, 3597, 320, 2022, 2416, 1269, 1208, 1601, 2237, 2325, 2417, 3598, 3247, 1270, 3129, 1904, 241, 216, 403, 468, 3050, 547, 2750]. **Random** [1272, 1330, 2240, 2241, 1698, 2026, 947, 1496, 1910, 1210, 1494, 2028, 1333, 1701, 1911, 2493, 3134, 3600, 3870, 3367, 1102, 1211, 1212, 1416, 1606, 1607, 1705, 1798, 2147, 2244, 2752, 2975, 3254, 3720, 3997, 1273, 2753, 550, 634, 30, 2148, 271, 2149, 2903, 3960, 3053, 3054, 3055, 3135, 3258, 3502, 720, 1060, 1153, 1335, 2030, 2671, 1609, 2419, 1336, 2031, 2151, 2152, 1501, 1215, 1418, 1337, 1708, 2420, 2331, 3723, 2421, 2422, 2756, 3503, 3505, 3963, 3140, 1506, 2337, 2979, 3941, 1156, 1107, 1108, 1109, 2675, 2980, 3141, 2981, 2676, 298, 3607, 1028, 1110, 1509]. **Random** [1422, 378, 3507, 2583, 439, 3904, 300, 350, 722, 553, 1113, 857, 1511, 505, 1424, 1512, 3375, 3376, 49, 1924, 1114, 275, 1812, 2680, 594, 323, 408, 861, 2908, 1513, 2341, 2758, 3267, 303, 823, 1345, 2986, 3982, 3510, 766, 1720, 768, 769, 1162, 1226, 1517, 3377, 2761, 637, 682, 3905, 3926, 3964, 2262, 200, 243, 244, 144, 683, 444, 3513, 3674, 1115, 1429, 3142, 3379, 3380, 3271, 640, 412, 507, 2342, 2588, 2989, 1283, 3273, 65, 66, 74, 325, 353, 354, 3677, 556, 684, 2990, 380, 3061, 3145, 3761, 1354, 3519, 595, 911, 774, 2266, 4127]. **Random** [2269, 1723, 2590, 1431, 2056, 245, 1822, 1933, 1934, 3762, 3679, 862, 3942, 2350, 3278, 3147, 2994, 3384, 1824, 1825, 1938, 2842, 3615, 3385, 3149, 3731, 3967, 279, 327, 3928, 596, 202, 1069, 2771, 154, 1524, 1622, 1357, 355, 3929, 2691, 329, 330, 383, 2692, 2693, 2843, 3763, 155, 2172, 2694, 2438, 118, 2512, 1072, 1359, 3617, 3618, 515, 3999, 1530, 1625, 2352, 1948, 3159, 3732, 1073, 2919, 1441, 1531, 865, 1532, 1626, 2177, 2920, 1833, 3684, 3161, 2597, 776, 825, 867, 1535, 729, 917, 1362, 1727, 3526, 2439, 225, 516, 644, 1729, 1447, 1536, 3734, 2276, 1537, 558]. **Random** [645, 1005, 1120, 480, 1236, 1288, 1540, 1631, 1733, 2183, 2283,

2359, 2361, 2362, 2363, 2365, 2444, 2445, 2516, 2602, 2603, 2604, 2605, 2701, 2702, 2849, 2850, 3002, 3004, 3071, 3073, 3166, 3287, 3529, 3530, 3621, 3736, 3764, 3931, 3946, 3620, 827, 1008, 3735, 3804, 3286, 1837, 1074, 1732, 646, 919, 1839, 3167, 3290, 2065, 1175, 3169, 3911, 3171, 1735, 1736, 2703, 3293, 2612, 3173, 3174, 3625, 2931, 3876, 3737, 249, 2615, 3688, 2777, 384, 4002, 691, 2367, 2454, 3689, 2779, 309, 358, 1544, 1373, 2067, 3810, 2368, 3626, 3627, 2188, 3541, 97, 254, 280, 281, 282, 312, 337]. **Random**
[340, 449, 450, 522, 559, 692, 693, 788, 789, 966, 1075, 1076, 1178, 1180, 1456, 1637, 1844, 1845, 1846, 1847, 2069, 2070, 2448, 2525, 2781, 2858, 386, 604, 3630, 2190, 3180, 2192, 1640, 2712, 2715, 1641, 1458, 1181, 1461, 1038, 1549, 2076, 791, 2194, 389, 2077, 831, 1851, 560, 1127, 1292, 3544, 3740, 2078, 1182, 1293, 1376, 3080, 2377, 131, 416, 187, 456, 1079, 3185, 524, 390, 3298, 2789, 2538, 2625, 2722, 3637, 3816, 3081, 608, 736, 871, 2456, 417, 2290, 3407, 3408, 654, 2619, 2620, 1855, 2082, 3188, 613, 873, 1756, 1859, 3848]. **Random**
[1759, 2292, 967, 2202, 3303, 343, 1561, 658, 1648, 3192, 206, 697, 3989, 925, 2539, 2870, 3416, 1384, 3417, 3640, 2382, 2089, 835, 1, 3947, 1186, 1464, 1762, 3086, 1976, 1081, 1652, 2458, 969, 2204, 3307, 2797, 1978, 2094, 1187, 361, 391, 457, 1979, 1082, 740, 365, 526, 1466, 1766, 3949, 3916, 3423, 3548, 3642, 148, 392, 2631, 700, 527, 3779, 3818, 619, 702, 1984, 2872, 528, 838, 3309, 1767, 55, 57, 2800, 262, 1986, 1043, 3426, 3427, 3428, 3429, 1088, 368, 2098, 229, 3196, 1567, 930, 1012, 802, 1568, 2633, 3430, 3198, 3950, 1865, 2462, 3699].
**Random** [3431, 3432, 3647, 2945, 2099, 3884, 3745, 1247, 3311, 3312, 1569, 706, 1090, 1191, 529, 369, 287, 2463, 2635, 978, 979, 1014, 1044, 1091, 530, 2877, 3201, 744, 623, 932, 3029, 207, 420, 421, 1573, 1192, 371, 745, 2390, 1574, 2103, 3438, 3031, 982, 2214, 533, 569, 2949, 461, 1871, 2468, 626, 423, 2471, 2473, 627, 885, 1250, 1993, 149, 394, 395, 534, 3315, 3439, 886, 1304, 208, 346, 535, 3206, 425, 2303, 536, 3093, 2551, 3562, 628, 3094, 3854, 3885, 2644, 844, 887, 888, 984, 2304, 2305, 2393, 2646, 3207, 3208, 2881, 136, 373]. **Random**
[3320, 2954, 1471, 1472, 2000, 3210, 3321, 1137, 3097, 3211, 3447, 3785, 1579, 9, 107, 210, 3213, 3449, 168, 3324, 3325, 2883, 572, 666, 1046, 1581, 2397, 2812, 315, 3100, 1664, 3326, 3215, 3216, 1665, 2219, 2220, 3328, 1047, 3451, 1093, 426, 2113, 2815, 1140, 1195, 1310, 3567, 537, 538, 1584, 2554, 1196, 3331, 1667, 847, 712, 805, 1668, 938, 2222, 3333, 1311, 2480, 3335, 3573, 427, 428, 889, 1048, 1142, 1312, 1783, 3455, 3224, 749, 808, 70, 3225, 3337, 2405, 1253, 1785, 1590, 2307, 266, 940, 2655, 429, 3706, 3338, 3457, 3576, 3655, 3339, 1476, 1672].
**Random**
[3230, 3459, 848, 3342, 1255, 3955, 3343, 2557, 2407, 3797, 405, 3369, 937, 3344, 3708, 3892, 2558, 430, 1144, 1198, 1313, 1314, 1315, 1477, 3657, 2559, 2560, 3790, 630, 631, 1397, 316, 1399, 812, 714, 3346, 3994, 1258, 3859, 3107, 3108, 1886, 1478, 1319, 1675, 3109, 813, 3468, 3469, 1594, 1676, 3751, 751, 1260, 1786, 2123, 497, 3658, 2012, 2125, 3861, 3583, 1678, 1483, 897, 1019, 1679, 3233, 3234, 432, 433, 3924, 2313, 898, 3111, 3474, 1890, 1681, 2229, 1321, 2890, 2316, 3712, 3753, 3995, 3925, 3477, 3663, 3664, 3713, 1261, 1891, 2130, 1051, 1052, 3042].
**random**

[3585, 3350, 150, 3235, 579, 3114, 2567, 2568, 3793, 1485, 1596, 1682, 465, 672, 2747, 3481, 3115, 318, 2893, 2894, 3666, 3667, 1683, 3116, 1404, 2895, 1597, 2232, 2410, 3589, 3590, 3832, 3863, 850, 1488, 715, 581, 2137, 3755, 1489, 2824, 3236, 3237, 3356, 1406, 500, 2138, 3117, 3118, 3238, 3239, 1148, 755, 235, 3486, 817, 194, 1892, 1203, 2016, 182, 1490, 238, 674, 1688, 2662, 2972, 3046, 1690, 1098, 582, 71, 89, 946, 1204, 3047, 3717, 2413, 2749, 632, 905, 1692, 104, 3240, 3757, 195, 1205, 502, 583, 3833, 2569, 1266, 1600, 1898, 3361, 1412, 718, 545]. **random**
[675, 1058, 3124, 3242, 3493, 3718, 3719, 3048, 1901, 1902, 3127, 1268, 3128, 37, 3899, 3758, 214, 215, 3495, 1903, 2145, 546, 676, 3248, 677, 1696, 1271, 1603, 2023, 2238, 3130, 2024, 2146, 2239, 2326, 2491, 2974, 1023, 404, 3249, 3250, 3496, 1329, 1413, 1493, 1414, 3251, 3497, 1331, 217, 297, 1332, 1497, 1498, 1797, 3252, 3368, 989, 1415, 1495, 3498, 1604, 1605, 1702, 1703, 2669, 2751, 2830, 3669, 3835, 1334, 3500, 990, 991, 1024, 1059, 1101, 1103, 1104, 1213, 1704, 1799, 1912, 633, 992, 438, 549, 585, 680, 43, 3256, 1608, 3052, 1500, 3257, 3370, 406, 3670]. **random** [994, 1801, 113, 3372, 3056, 1417, 2754, 377, 2245, 1026, 3137, 3057, 218, 3259, 681, 1420, 2249, 1217, 1276, 1339, 586, 2905, 2755, 2423, 2576, 2577, 1061, 3504, 3871, 3139, 2832, 1421, 2907, 3903, 2425, 153, 1278, 2833, 721, 1157, 2159, 2426, 2427, 2428, 2580, 1717, 3506, 141, 1158, 1508, 2160, 2582, 1810, 1219, 1220, 1341, 242, 2043, 1221, 3838, 48, 60, 91, 92, 591, 592, 273, 184, 274, 1112, 764, 1223, 724, 3725, 765, 1064, 1343, 1030, 2983, 3672, 822, 2430, 2499, 997, 2584, 3839, 116, 142, 2683, 767, 199, 219, 2434, 174]. **random**
[475, 909, 954, 2988, 1163, 411, 2762, 3378, 2763, 1721, 1518, 1816, 443, 1281, 770, 772, 1000, 476, 1227, 1282, 1350, 83, 93, 477, 773, 2586, 3269, 3270, 1351, 3381, 3800, 2046, 2164, 3382, 3272, 1519, 3610, 221, 222, 324, 1430, 75, 1116, 2048, 2049, 3840, 3516, 685, 1929, 3063, 3276, 955, 3520, 2344, 2347, 1066, 1932, 2054, 3841, 381, 1520, 913, 2768, 2916, 3678, 775, 305, 686, 1936, 1068, 2917, 1521, 1823, 1826, 1937, 2505, 2770, 3729, 1433, 67, 76, 3614, 1229, 3730, 3148, 2593, 3280, 3943, 1230, 1621, 3522, 224, 3523, 1001, 3682, 1435].
**random**
[1436, 1724, 2507, 3150, 1231, 2437, 1725, 1523, 2351, 3386, 2272, 2483, 1070, 2510, 3930, 3524, 1942, 1170, 331, 958, 3153, 3281, 3066, 1285, 84, 1171, 21, 1232, 95, 1118, 2173, 1439, 2918, 3388, 3282, 1440, 2174, 2273, 2274, 2353, 3525, 1002, 1947, 1949, 1033, 2275, 3156, 3157, 3158, 3283, 3160, 1003, 728, 26, 31, 32, 1443, 2845, 3909, 3945, 777, 916, 1004, 1234, 2846, 479, 2355, 357, 779, 1627, 307, 2357, 1628, 1446, 2921, 3733, 2441, 4019, 918, 1006, 1034, 248, 3842, 2696, 3068, 2922, 2999, 3069, 781, 1121, 826, 3986, 3390, 1368, 1632, 1838, 1957, 2179, 2184, 2279]. **random** [2280, 2281, 2282, 2360, 2364, 2600, 2601, 2699, 2847, 2924, 2925, 3070, 3072, 3844, 3284, 1007, 1174, 3391, 1122, 3165, 3285, 2442, 1952, 1953, 782, 481, 2851, 2853, 3006, 3168, 1958, 3765, 3622, 2608, 2521, 647, 2611, 3292, 3531, 2928, 3532, 3624, 4001, 2613, 3687, 1452, 2932, 3968, 1841, 518, 3395, 3075, 3396, 3535, 3538, 1738, 3766, 3809, 2778, 2933, 1237, 3398, 1238, 1633, 2187, 1960, 158, 3400, 334, 600, 18, 2706, 1634, 1635, 1741, 1843, 1963, 649, 1239, 3540, 3690, 3768, 3769, 251, 2523, 3294, 3295, 415, 3628, 226, 252, 253,

255, 283, 311, 336, 385, 447, 448, 485]. **random**
[521, 652, 1124, 1179, 1545, 1546, 1547, 1636, 1742, 1964, 1966, 2287, 2370, 2527, 2707, 2782, 3008, 3401, 387, 1457, 2709, 3178, 3691, 3914, 3542, 3179, 3629, 3692, 3739, 1849, 2373, 2074, 2075, 2450, 77, 1548, 1745, 3182, 2375, 284, 694, 733, 1009, 3543, 2787, 2866, 1747, 160, 130, 488, 1643, 2193, 792, 454, 455, 830, 2376, 3079, 3632, 3695, 793, 1550, 3297, 607, 734, 1078, 3404, 2617, 920, 2079, 921, 61, 313, 3773, 832, 3013, 3696, 2455, 1750, 3405, 833, 2618, 28, 3299, 609, 3406, 2289, 3014, 3635, 611, 1295, 1751, 1856, 2197]. **random**
[2791, 561, 562, 695, 797, 798, 799, 834, 874, 1184, 1555, 1647, 923, 924, 3409, 3191, 615, 2293, 3304, 3410, 2868, 659, 1562, 876, 3698, 418, 2294, 227, 3083, 2940, 3415, 1383, 2203, 360, 1129, 1649, 2723, 3306, 2381, 1564, 490, 1463, 1130, 162, 491, 258, 1080, 45, 2628, 1760, 3419, 1386, 1040, 3193, 3882, 2384, 2540, 2459, 2092, 564, 3546, 1300, 362, 364, 2296, 3420, 662, 800, 3020, 663, 699, 344, 3852, 1131, 228, 2630, 618, 2541, 3422, 1864, 1982, 1983, 260, 620, 367, 1188, 839, 621, 3549, 188, 2385, 3644, 2386, 1468, 970, 971]. **random**
[189, 3310, 3883, 3022, 1086, 566, 929, 1389, 840, 3780, 46, 3024, 801, 2461, 134, 3087, 2873, 1656, 931, 973, 1190, 2543, 878, 1089, 703, 3551, 1302, 974, 3783, 3819, 3820, 3784, 3027, 665, 1013, 743, 707, 622, 2101, 1769, 531, 532, 567, 1571, 708, 1135, 2946, 3701, 135, 1867, 3648, 191, 492, 370, 3552, 3553, 1390, 1470, 1572, 1660, 1771, 2102, 2212, 2213, 2878, 3702, 2803, 2636, 2728, 2637, 3972, 1772, 1868, 2299, 2465, 1045, 3436, 843, 1869, 1248, 1249, 459, 2638, 2639, 1990, 3853, 263, 289, 460, 3746, 2215, 2300, 1193, 192, 345, 2467, 2804]. **random**
[2301, 2640, 2805, 3558, 2806, 1576, 2474, 2549, 2550, 79, 2807, 3092, 3560, 2641, 2642, 570, 3561, 2108, 2730, 2808, 2879, 3974, 3316, 3317, 3563, 2880, 3886, 2217, 2552, 2731, 935, 2647, 2732, 2734, 2810, 2951, 2952, 2953, 3034, 3035, 3095, 3442, 3443, 3444, 3564, 3565, 3209, 3445, 845, 165, 3446, 1661, 1875, 2110, 1194, 3036, 3096, 3098, 3704, 3705, 3749, 2396, 193, 1580, 3448, 3323, 2476, 2553, 167, 1876, 3214, 3953, 2477, 2478, 1308, 985, 3099, 2813, 3888, 3327, 3954, 2737, 2814, 3786, 3450, 846, 3452, 2652, 2003, 2004, 2479, 1094, 3652, 3568, 36, 3937, 3889, 573]. **random**
[629, 668, 1666, 3569, 711, 2115, 2886, 232, 1585, 177, 1586, 1878, 3037, 3221, 3570, 3787, 1782, 2653, 3334, 3336, 713, 462, 2957, 3038, 1475, 2555, 3223, 3454, 3574, 3654, 1880, 807, 2404, 2887, 1784, 2406, 20, 2308, 2740, 3039, 3456, 3575, 3226, 3976, 3458, 3040, 3227, 2556, 1671, 2888, 2742, 1591, 3577, 3340, 3341, 3461, 3824, 29, 3462, 2960, 3463, 3578, 3707, 3750, 890, 1256, 3464, 575, 2961, 1884, 3602, 4000, 1582, 176, 100, 268, 1023, 2822, 269, 170, 321, 308, 129, 3686, 653, 363, 314, 3028, 2002, 2745, 2801, 2892, 294, 399, 2488, 514, 482, 2863, 1748].
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$f(x) = 4 \cdot (1-x)$ one obtains a sequence of numbers on $(0, 1)$ with a computable algebraic distribution. By playing suitable games with numbers 'drawn' in this fashion, one can obtain various other distributions, either given explicitly or satisfying given differential or integral equations.".

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[1477] Lothar Afflerbach. Criteria for the assessment of random number generators. *Journal of Computational and Applied Mathematics*, 31(1):3–10, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL http://www.sciencedirect.com/science/article/pii/0377042790903303.

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[1478] N. Alon, O. Goldreich, J. Håstad, and R. Peralta. Simple construction of almost $k$-wise independent random variables. In IEEE [4076], pages 544–553. CODEN ASFPDV. ISBN 0-8186-2082-X (paperback), 0-8186-6082-1 (microfiche), 0-8186-9082-8 (case). ISSN 0272-5428. LCCN TK7885.A1 S92 1990. Formerly called the Annual Symposium on Switching and Automata Theory. IEEE catalog number 90CH29256. Computer Society order number 2082.

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[1479] Stuart L. Anderson. Random number generators on vector supercomputers and other advanced architectures. *SIAM Review*, 32(2):221–251, June 1990. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic). URL http://www.jstor.org/stable/2030521.

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[1480] Ross J. Anderson. Solving a class of stream ciphers. *Cryptologia*, 14(3):285–288, July 1990. CODEN CRYPE6. ISSN 0161-1194 (print), 1558-1586 (electronic). URL http://www.informaworld.com/smpp/content~content=a741902650~db=all~order=page. keystream sequences; linear feedback shift registers; multiplexor; consistency check; observed keystream; address information.

**Andre:1990:FMD**

[1481] Debra A. André, Gary L. Mullen, and Harald Niederreiter. Figures of merit for digital multistep pseudorandom numbers. *Mathematics of Computation*, 54(190):737–748, April 1990. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL http://www.jstor.org/stable/pdfplus/2008509.pdf.

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[1482] Y. Asada, N. Kobayashi, T. Hayashi, M. Suzuki, N. Hidaka, K. Odani, K. Kondo, T. Mimura, and M. Abe. A gigahertz cryogenic HEMT pseudorandom number generator chip set. In ????, editor, *Digest of Technical Papers. IEEE International 37th ISSCC Solid-State Circuits Conference, 16–16 February 1990, San Francisco, CA, USA*, pages 186–187. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1990. ISBN ???? LCCN ????

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[1483] G. Ascheid. On the generation of WMC-distributed random numbers. *IEEE Transactions on Communications*, 38(12):2117–2118, December 1990. CODEN IECMBT. ISSN 0090-6778 (print), 1558-0857 (electronic).

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[1484] François Baccelli and Zhen Liu. On the execution of parallel programs on multiprocessor systems — a queuing theory approach. *Journal of the ACM*, 37(2):373–414, April 1990. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL `http://www.acm.org/pubs/toc/Abstracts/0004-5411/77622.html`.

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[1485] Carter Bays. C364. Improving a random number generator: a comparison between two shuffling methods. *Journal of Statistical Computation and Simulation*, 36(1):57–59, May 1990. CODEN JSCSAJ. ISSN 0094-9655 (print), 1026-7778 (electronic), 1563-5163. URL `http://www.tandfonline.com/doi/abs/10.1080/00949659008811264`. See [646, 754] for the two nearly identical shuffling algorithms. This paper explains why the first does not lengthen the generator period, or much reduce the lattice structure of linear congruential generators, but the second improves both dramatically.

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[1486] Javad Behboodian. Examples of uncorrelated dependent random variables using a bivariate mixture. *The American Statistician*, 44(3):218, August 1990. CODEN ASTAAJ. ISSN 0003-1305 (print), 1537-2731 (electronic).

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[1488] Thomas Beth and Zong-Duo Dai. On the complexity of pseudo-random sequences — or: If you can describe a sequence it can't be random. *Lecture Notes in Computer Science*, 434:533–??, 1990. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL `http://link.springer-ny.com/link/service/series/0558/bibs/0434/04340533.htm`; `http://link.springer-ny.com/link/service/series/0558/papers/0434/04340533.pdf`.

**Bhavsar:1990:EDL**

[1489] Virendra C. Bhavsar, Uday G. Gujar, Joseph D. Horton, and Lambros A. Lambrou. Evaluation of the discrepancy of the linear congruential pseudo-random number sequences. *BIT (Nordisk tidskrift for informationsbehandling)*, 30(2):257–267, June 1990. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL `http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=30&issue=2&spage=257`.

**Bralic:1990:AGR**

[1490] N. Bralić, R. Espinosa, and C. Saavedra. An algorithm for the generation of random numbers with density $C\exp(-\lambda|x|^{\nu})$. *Journal of Computational Physics*, 88(2):484–489, June 1990. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0021999190901913`.

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[1491] Roger L. Burford. Random number generators for microcomputers. *Communications in Statistics: Simulation and Computation*, 19(2):649–662, ???? 1990. CODEN CSSCDB. ISSN 0361-0918. URL `http://www.tandfonline.com/doi/abs/10.1080/03610919008812880`.

**Carta:1990:TFI**

[1492] David G. Carta. Two fast implementations of the "Minimal standard" random number generator. *Communications of the ACM*, 33(1):87–88, January 1990. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL `http://www.acm.org/pubs/toc/Abstracts/0001-0782/76379.html`. See criticism and errata [1771], and further criticism in [1862]. The latter point out that Carta's implementation does not correspond to their proposal.

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[1493] J. S. Dagpunar. Sampling from the von Mises distribution via a comparison of random numbers. *Journal of Applied Statistics*, 17(1):165–168, 1990. CODEN ???? ISSN 0266-4763 (print), 1360-0532 (electronic).

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[1494] István Deák. *Random number generators and simulation*, volume 4 of *Mathematical methods of operations research*. Akadémiai Kiadó, Budapest, Hungary, 1990. ISBN 963-05-5316-3. 341 pp. LCCN QA298 .D4313 1990.

**Deak:1990:URN**

[1495] István Deák. Uniform random number generators for parallel computers. *Parallel Computing*, 15(1–3):155–164, September 1990. CODEN PACOEJ. ISSN 0167-8191 (print), 1872-7336 (electronic).

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[1496] James DeArman. Improving random number generators on microcomputers. *Computers and Operations Research*, 17(3):283–295, ???? 1990. CODEN CMORAP. ISSN 0305-0548 (print), 1873-765X (electronic). URL `http://www.sciencedirect.com/science/article/pii/030505489090005R`.

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[1498] A. De Matteis and S. Pagnutti. Long-range correlations in linear and nonlinear random number generators. *Parallel Computing*, 14(2):207–210, June 1990. CODEN PACOEJ. ISSN 0167-8191 (print), 1872-7336 (electronic).

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[1499] Lih-Yuan Deng and E. Olusegun George. Generation of uniform variates from several nearly uniformly distributed variables. *Communications in Statistics: Simulation and Computation*, 19(1):145–154, ???? 1990. CODEN CSSCDB. ISSN 0361-0918.

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[1500] H. Döring. Erzeugung normalverteilter Zufallsszahlen mit 16-bit-PC. (German) [Generation of normally-distributed random numbers on an

16-bit PC]. *Nachrichtentechnik Elektronik*, 40(8):306–309, 1990. CODEN NTELAP. ISSN 0323-4657.

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[1501] William F. Eddy. Random number generators for parallel processors. *Journal of Computational and Applied Mathematics*, 31(1):63–71, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090336X`. See [358, 1270] for combined generators.

**Eichenauer-Herrmann:1990:LSN**

[1502] J. Eichenauer-Herrmann, H. Grothe, H. Niederreiter, and A. Topuzoğlu. On the lattice structure of a nonlinear generator with modulus $2^\alpha$. *Journal of Computational and Applied Mathematics*, 31(1):81–85, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090338Z`.

**Eichenauer-Herrmann:1990:PLC**

[1503] J. Eichenauer-Herrmann and A. Topuzoğlu. On the period length of congruential pseudorandom number sequences generated by inversions. *Journal of Computational and Applied Mathematics*, 31(1):87–96, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0377042790903392`.

**Eichenauer-Herrmann:1990:UBB**

[1504] J. Eichenauer-Herrmann and H. Grothe. Upper bounds for the Beyer ratios of linear congruential generators. *Journal of Computational and Applied Mathematics*, 31(1):73–80, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090337Y`. Random numbers and simulation (Lambrecht, 1988).

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[1505] S. M. Ermakov and V. V. Dovgal. Limit theorems for the Tausworthe randomizer. *Vestnik Leningradskogo Universiteta. Matematika*, 23(1): 105–106, ???? 1990. CODEN ???? ISSN 0024-0850.

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[1506] T. Etzion. On pseudo-random arrays constructed from patterns with distinct differences. In Capocelli [4074], pages 195–207. ISBN 3-540-97186-6 (Berlin), 0-387-97186-6 (New York). LCCN QA292 A38 1988.

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[1507] H. Faure. Using permutations to reduce discrepancy. *Journal of Computational and Applied Mathematics*, 31(1):97–103, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0377042790903406`.

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[1508] Salvatore Filippone, Paolo Santangelo, and Marcello Vitaletti. A vectorized long-period shift-register random number generator. In IEEE [4077], pages 676–684. ISBN 0-8186-2056-0 (paperback) (IEEE Computer Society), 0-89791-412-0 (paperback) (ACM). LCCN QA 76.88 S87 1990. ACM order number 415903. IEEE Computer Society Press order number 2056. IEEE catalog number 90CH2916-5.

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[1509] George S. Fishman. Multiplicative congruential random number generators with modulus $2^\beta$: An exhaustive analysis for $\beta \simeq 32$ and a partial analysis for $\beta \simeq 48$. *Mathematics of Computation*, 54(189):331–344, January 1990. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL `http://www.jstor.org/stable/2008698`.

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[1510] Bernard D. Flury. Acceptance-rejection sampling made easy. *SIAM Review*, 32(3):474–476, September 1990. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic).

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[1511] Robert Fruit. A pseudo-random number generator. *C Users Journal*, 8 (5):83–??, May 1990. CODEN ???? ISSN 0898-9788.

**Fushimi:1990:RNG**

[1512] Masanori Fushimi. Random number generation with the recursion $X_t = X_{t-3p} \oplus X_{t-3q}$. *Journal of Computational and Applied Mathematics*, 31(1):105–118, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090341V`.

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[1513] James E. Gentle. Computer implementation of random number generators. *Journal of Computational and Applied Mathematics*, 31(1):119–125, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090342W`. See comments [1771].

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[1514] John M. Gleason. Empirical tests of the intrinsic pseudorandom number generator on IBM-compatible microcomputers. *Computer Methods and Programs in Biomedicine*, 33(3):171–174, December 1990. CODEN CMPBEK. ISSN 0169-2607 (print), 1872-7565 (electronic).

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[1515] Oded Goldreich. A note on computational indistinguishability. *Information Processing Letters*, 34(6):277–281, May 28, 1990. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).

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[1516] Oded Goldreich and Hugo Krawczyk. Sparse pseudorandom distributions (extended abstract). *Lecture Notes in Computer Science*, 435:113–??, 1990. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL `http://link.springer-ny.com/link/service/series/0558/bibs/0435/04350113.htm`; `http://link.springer-ny.com/link/service/series/0558/papers/0435/04350113.pdf`.

**Golland:1990:BRB**

[1517] Ronald W. Golland. Book review: *Principles of Random Variate Generation* by John Dagpunar. *Technometrics*, 32(2):226–227, May 1990. CODEN TCMTA2. ISSN 0040-1706 (print), 1537-2723 (electronic). URL `http://www.jstor.org/stable/1268875`.

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[1518] V. Granville and J.-P. Rasson. A new type of random permutations generator to simulate random images. *Computational Statistics Quarterly*, 6(1):55–64, 1990. CODEN CSQUEM. ISSN 0723-712X.

**Haastad:1990:PRG**

[1519] J. Håstad. Pseudo-random generators under uniform assumptions. In ACM [4072], pages 395–404. ISBN 0-89791-361-2. LCCN QA76.A15 1990. URL `http://www.acm.org/pubs/citations/proceedings/stoc/100216/p395-hastad/`. ACM order number 508900.

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[1520] M. Hildebrand. *Rates of convergence of some random processes on finite groups*. Ph.D. dissertation, Department of Mathematics, Harvard University, Cambridge, MA, USA, 1990.

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[1521] Wolfgang Hörmann and Gerhard Derflinger. The ACR method for generating normal random variables. *OR Spektrum: Quantitative approaches in management*, 12(??):181–185, ???? 1990. ISSN 0171-6468 (print), 1436-6304 (electronic).

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[1522] P. D. Hortensius, R. D. McLeod, and B. W. Podaima. Cellular automata circuits for built-in self-test. *IBM Journal of Research and Development*, 34(2/3):389–405, March/May 1990. CODEN IBMJAE. ISSN 0018-8646 (print), 2151-8556 (electronic).

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[1524] N. Ito and Y. Kanada. Random number generation on a vector processor. *Supercomputer*, 7(1):29–35, January 1990. CODEN SPCOEL. ISSN 0168-7875.

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[1525] F. James. A review of pseudorandom number generators. *Computer Physics Communications*, 60(3):329–344, October 1990. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/001046559090032V`.

**Jansen:1990:SFS**

[1526] Cees J. A. Jansen and Dick E. Boekee. The shortest feedback shift register that can generate a given sequence. *Lecture Notes in Computer Science*, 435:90–??, 1990. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL `http://link.springer-ny.com/link/service/series/0558/bibs/0435/04350090.htm`; `http://link.springer-ny.com/link/service/series/0558/papers/0435/04350090.pdf`.

**Joe:1990:RLR**

[1527] S. Joe. Randomization of lattice rules for numerical multiple integration. *Journal of Computational and Applied Mathematics*, 31(2):299–304,

August 31, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090172V`.

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[1528] Bruce R. Johnson and David J. Leeming. A study of the digits of $\pi$, $e$, and certain other irrational numbers. *Sankhyā (Indian Journal of Statistics), Series B. Methodological*, 52(2):183–189, ???? 1990. CODEN SANBBV. ISSN 0581-5738.

**Just:1990:IRA**

[1529] Bettina Just. Integer relations among algebraic numbers. *Mathematics of Computation*, 54(189):467–477, January 1990. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Kao:1990:RNG**

[1530] Chiang Kao. On a random-number generator for microcomputers: Reply. *OR: the journal of the Operational Research Society*, 41(12):1193, December 1990. CODEN OPRQAK. ISSN 0160-5682 (print), 1476-9360 (electronic). URL `http://www.jstor.org/stable/2583127`. See [1440, 1573, 1601, 1625].

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[1531] W. David Kelton. Book review: *Principles of Random Variate Generation* (John Dagpunar). *SIAM Review*, 32(3):508–511, ???? 1990. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic).

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[1532] C. David Kemp. Book review: *Principles of Random Variate Generation*, by J. Dagpunar. *Journal of the Royal Statistical Society. Series D (The Statistician)*, 39(4):472–473, ???? 1990. CODEN ???? ISSN 0039-0526 (print), 1467-9884 (electronic). URL `http://www.jstor.org/stable/2349098`.

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[1533] C. D. Kemp. New algorithms for generating Poisson variates. *Journal of Computational and Applied Mathematics*, 31(1):133–137, July 24, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037704279090344Y`.

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[1534] A. W. Kemp. Patchwork rejection algorithms. *Journal of Computational and Applied Mathematics*, 31(1):127–131, July 24, 1990. CODEN

JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL http://www.sciencedirect.com/science/article/pii/037704279090343X.

**Kinderman:1990:CCG**

[1535] A. J. Kinderman and J. G. Ramage. Correction: Computer generation of normal random variables. *Journal of the American Statistical Association*, 85(409):272, March 1990. CODEN JSTNAL. ISSN 0162-1459 (print), 1537-274X (electronic). URL http://www.jstor.org/stable/2289582. See [776] and further correction [2882].

**Korolev:1990:ADR**

[1536] V. Yu. Korolev. Approximation of distributions of random sums of independent random variables by mixtures of normal laws. *Theory of Probability and its Applications*, 34(3):523–531, ???? 1990. CODEN TPRBAU. ISSN 0040-585X (print), 1095-7219 (electronic). Original Russian article in *Teor. Veroyatnost. i Primenen.*, **34**(3), (1989), pp. 581–588.

**Koutras:1990:TCN**

[1537] M. Koutras. Two classes of numbers appearing in the convolution of binomial-truncated Poisson and Poisson-truncated binomial random variables. *Fibonacci Quarterly*, 28(4):321–333, November 1990. CODEN FIBQAU. ISSN 0015-0517. URL http://www.fq.math.ca/Scanned/28-4/koutras.pdf.

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[1538] Hugo Krawczyk. How to predict congruential generators. *Lecture Notes in Computer Science*, 435:138–153, 1990. CODEN LNCSD9. ISBN 0-387-97317-6 (NY), 3-540-97317-6 (Berlin). ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer-ny.com/link/service/series/0558/bibs/0435/04350138.htm; http://link.springer-ny.com/link/service/series/0558/papers/0435/04350138.pdf.

**Lagarias:1990:PNG**

[1539] J. C. Lagarias. Pseudorandom number generators in cryptography and number theory. In Pomerance and Goldwasser [4078], pages 115–143. ISBN 0-8218-0155-4. ISSN 0160-7634. LCCN QA76.9.A25 C84 1990; QA1 .A56 v.42 1990. Abridged and revised version of [1539].

**LEcuyer:1990:RNS**

[1540] Pierre L'Ecuyer. Random numbers for simulation. *Communications of the ACM*, 33(10):85–97, October 1990. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0001-0782/84555.html.

**LEcuyer:1990:UVW**

[1541] P. L'Ecuyer. A unified view of the WA, SF, and LR gradient estimation techniques. *Management Science*, 36(??):1364–1383, ???? 1990. CODEN MSCIAM. ISSN 0025-1909 (print), 1526-5501 (electronic).

**Levitan:1990:PNG**

[1542] Yu. L. Levitan and I. M. Sobol. On a pseudorandom number generator for personal computers. *Matematicheskoe Modelirovanie*, 2(8):119–126, ???? 1990. CODEN ???? ISSN 0234-0879.

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[1543] Jack H. Lutz. Pseudorandom sources for BPP. *Journal of Computer and System Sciences*, 41(3):307–320, December 1990. CODEN JCSSBM. ISSN 0022-0000 (print), 1090-2724 (electronic). URL `http://www.sciencedirect.com/science/article/pii/002200009090023E`.

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[1544] James H. Macomber and Charles S. White. An $n$-dimensional uniform random number generator suitable for IBM-compatible microcomputers. *Interfaces*, 20(3):49–59, 1990. CODEN INFAC4. ISSN 0092-2102 (print), 1526-551X (electronic).

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[1545] George Marsaglia, B. Narasimhan, and Arif Zaman. The distance between random points in rectangles. *Communications in Statistics: Theory and Methods*, 19(11):4199–4212, 1990. CODEN CSTMDC. ISSN 0361-0926 (print), 1532-415X (electronic).

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[1546] George Marsaglia, B. Narasimhan, and Arif Zaman. A random number generator for PC's. *Computer Physics Communications*, 60(3):345–349, October 1990. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/001046559090033W`.

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[1547] George Marsaglia, Arif Zaman, and Wai Wan Tsang. Toward a universal random number generator. *Statistics & Probability Letters*, 9(1):35–39, 1990. CODEN SPLTDC. ISSN 0167-7152 (print), 1879-2103 (electronic).

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[1548] Ueli M. Maurer and James L. Massey. Perfect local randomness in pseudo-random sequences. *Lecture Notes in Computer Science*, 435:100–

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**Micali:1990:EPR**

[1549] Silvio Micali and Claus-Peter Schnorr. Efficient, perfect random number generators. In Goldwasser [4075], pages 173–198. CODEN LNCSD9. ISBN 0-387-97196-3 (USA). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.9.A25 C79 1988. URL http://link.springer-ny.com/link/service/series/0558/tocs/t0403.htm; http://www.springerlink.com/openurl.asp?genre=issue&issn=0302-9743&volume=403.

**Mitchell:1990:EEA**

[1550] Ricardo A. Mitchell. Error estimates arising from certain pseudorandom sequences in a quasi-random search method. *Mathematics of Computation*, 55(191):289–297, July 1990. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL http://www.jstor.org/stable/pdfplus/2008806.pdf.

**Mitchell:1990:NKG**

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2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/002199919290164T.

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