

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

Nelson H. F. Beebe  
University of Utah  
Department of Mathematics, 110 LCB  
155 S 1400 E RM 233  
Salt Lake City, UT 84112-0090  
USA

Tel: +1 801 581 5254

E-mail: [beebe@math.utah.edu](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org),  
[beebe@computer.org](mailto:beebe@computer.org) (Internet)  
WWW URL: <https://www.math.utah.edu/~beebe/>

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## Title word cross-reference

**#14** [2316]. **#15949** [893]. **#4059** [1267]. **#8373** [2138].

$(0, 1)$  [1078].  $(0, s)$  [2580, 2981].  $(a^n - 1)/(a - 1)$  [940].  $(j, \epsilon)$  [747].  $(n^2\alpha)$  [2531].  $(n^k\alpha)$  [2532].  $(n\alpha)$  [2531].  $(t, m, s)$  [2082, 2938, 2088, 2389].  $(t, s)$  [2676, 2082, 2380, 2938, 2088].  $(X, Y)$  [3698].  $(X^2 - Y^2)^{1/2}$  [499].  
 $0.1(0 \times 1)0 \times 9$  [141]. 1 [754, 897, 2891, 173, 306, 729, 3016, 3018]. 1, 2, 3 [3553]. 1.13198824... [2555]. 10,000 [285]. **\$10.00** [170].  $10^{2857}$  [2526].  $10^{435}$  [2079].  $1200\mu$  [3181]. 128 [3207]. 13 [273]. 16 [273]. 2 [2891, 2157, 952, 3143, 2540, 2870, 3020]. 2,000 [87]. **\$24.95** [2125].  $2^{-31} - 1$  [857, 953].  $2^{15}$  [2175].  $2^{31} - 1$  [3603, 821, 996, 1029, 1220, 1221].  $2^{31} - 69$  [3446].  $2^{32} - 1$  [1111].  $2^\alpha$  [1503, 2276].  $2^\beta$  [1342, 1510, 1762].  $2^k$  [2657].  $2^{k-1}$  [2657].  $2^p$  [3302].  $2^p - 1$  [2309].  $2^t$  [3937]. 3 [1818, 3744]. 32 [3689]. 4 [273]. 48 [248]. 5 [273]. **\$52.95** [3655]. 64 [3877].  $[0, 1]$  [219, 869].  $^{-1}$  [3690].  $^2$  [3181].  $_\tau$



[2411, 1991].  $a$  [369].  $a = \pm 2^q \pm 2^r$  [2444, 2518].  $a_n$  [665].  $\alpha \geq 1$  [3693].  $\alpha\lambda$  [731, 732].  $b$  [2172, 3397].  $b = 2, 3, 5, 6, 7, 10, 11, 12$  [1058, 1327, 2664].  $b^n \pm 1$  [1058, 1327, 2664].  $\beta = 32$  [1342].  $\beta = 48$  [1342].  $\beta \simeq 32$  [1510].  $\beta \simeq 48$  [1510].  
 $\left\{ \frac{a}{m} j^2 \right\}, \left\{ \frac{a}{m} (j + \tau)^2 \right\}$  [328].  $\text{mod } 1$  [301, 302, 407, 657, 740, 662].  $\text{mod } n$  [2242].  $C^\infty$  [1286].  $C \exp(-\lambda|x|^\nu)$  [1491].  $\chi^2$  [349, 948, 1108, 1109, 1110, 6, 7].  
 $D$  [2415, 1838, 3028, 2116].  $d^2$  [93].  $e$  [81, 1529, 87, 372].  $\epsilon$  [1943].  $F_2$  [3062, 3072, 3288, 3877].  $F_{2^w}$  [2871].  $G$  [452, 453].  $\Gamma$  [1241, 1215].  $j$  [2043].  $K$  [2229, 3895, 1479, 3865, 3897, 1796, 2149, 1063, 1344, 1950, 3743, 3775, 1129, 1382, 1999].  $k > 1$  [1371].  $L^2$  [2067, 1995].  $L_2$  [2167].  $L_p$  [2441].  $\lambda$  [2860].  $M$  [1458, 1225, 1191, 850, 469, 1065, 1034, 446, 250, 1375, 2192, 2375, 2110, 2217, 2219, 2306, 1140, 231].  $\mathbf{F}_2$  [3146, 3519].  $\mathbf{F}_{2^w}$  [3019].  $\mathbf{F}_q$  [3265, 3574].  $\mathbf{F}_{q^m}$  [3265, 3574].  $\mathbf{R}^d$  [4001].  $\mathbf{F}_2$  [3520].  $\text{GF}(2^m)$  [1588].  $\mu$  [3244].  $N$  [1158, 916, 270, 1332, 1707, 1708, 2263, 728, 3740, 205, 622, 196, 2832, 201, 1545, 3854, 802, 207, 429, 805].  $O(3)$  [1590].  $O(n(1 + \log(N/n)))$  [1960].  $P$  [6, 726, 3916, 3991, 3186, 2463, 2210, 3399, 2223, 2407].  
 $\partial^2 u / \partial x^2 + \partial^2 u / \partial y^2 + (K/y)(\partial u / \partial y) = 0$  [197].  $\pi$  [2904, 81, 1529, 87, 285, 288, 2957].  $\pm 1$  [665].  $\pm 2^{k_1} \pm 2^{k_2}$  [2309].  $\pm 2^{p_1} \pm 2^{p_2}$  [2649].  $q$  [2544].  $S$  [1028, 1901].  $\sigma$  [1590].  $\sqrt{2}$  [410, 441].  $\sum a_n/n$  [665].  $T$  [2611, 2888, 1891, 851, 1901, 1330, 3066, 868, 962, 967, 40].  $U(0, 1)$  [2762].  
 $X(I+1) = AX(I) \bmod 2^{31} 1$  [783].  $X/Z$  [3698].  $x^2 \bmod N$  [2026].  
 $X_{n+1} = a_n X_n + b_n \pmod{p}$  [1823].  $X_t = X_{t-3p} \oplus X_{t-3q}$  [1513].  $Y/Z$  [3698].  
 $y = [(a+x) \sin(bx)] \bmod 1$  [2387].  $Z$  [3698].  $Z/nZ$  [1934].  $Z_p$  [1413].

**\*good\*** [2708].

**-adic** [3397, 453, 452, 2407]. **-biased** [1943]. **-Bit** [3207, 3877, 248]. **-concave** [2611]. **-D** [3143]. **-deformed** [2544]. **-dependent** [1943]. **-Detection** [3854]. **-digit** [273]. **-Dimensional** [270, 196, 201, 916, 1545, 1999, 1796, 805, 205, 1332, 3028]. **-discrepancy** [2067]. **-distributed** [1344]. **-Distribution** [967, 1891, 1063]. **-distributions** [1838, 2116]. **-échantillon** [802]. **-estimates** [1458]. **-Fock** [2544]. **-function** [2043, 2860]. **-functions** [1286]. **-homomorphism** [2415]. **-Linear** [3062, 3146, 3877, 3072, 3288, 3519, 3520]. **-model** [1590]. **-net** [2082]. **-Nets** [2938, 2088, 2389]. **-nm** [3689]. **-observation** [1707, 1708]. **-quanta** [1215]. **-Random** [2223]. **-sample** [802]. **-sequence** [1034, 1375, 2375, 2082, 1225, 1191]. **-Sequences** [850, 2580, 2981, 446, 2380, 2938, 2088, 2676, 1065, 2192, 2110, 2217, 2219, 2306]. **-sphere** [1140, 429]. **-step** [1129, 1382]. **-System** [2229]. **-Values** [726, 3186]. **-Vector** [3897, 3865, 3743, 3775]. **-wise** [3895, 1479, 2149, 1950].

**/dev/random** [2746, 2802, 2893]. **/dev/urandom** [2802].



**0.57pJ** [3316]. **0.57pJ/bit** [3316]. **'05** [4168, 4172]. **'07** [4178]. **'08** [4183].

**1** [764, 1067, 1956, 1957, 3428, 3331]. **1.04** [3244]. **1.1** [3768]. **1.6** [3690]. **'10** [4196, 909]. **1013** [3942]. **106** [1110, 843]. **10th** [4026, 4173]. **11** [1336]. **111** [816]. **11th** [4022, 4192, 4104]. **12** [893]. **120** [2889]. **128-bit** [2497, 3200]. **12th** [4172]. **'13** [4218]. **133** [268, 269, 308, 314]. **134** [897]. **13th** [4140]. **14th** [4179, 4107]. **153** [951, 1109, 1110]. **155** [948, 1110]. **157** [999]. **16** [1501, 3027, 934]. **16-Bit** [1289, 1899, 760, 1501, 2213]. **16-bit-PC** [1501]. **160** [2514]. **16th** [4090]. **1750** [1914]. **17th** [4196]. **181** [1862]. **183** [1182, 1049, 1143, 1256]. **193** [1168, 1068]. **1949** [4014]. **1953** [4017]. **1954** [4018]. **1957** [4019]. **1960** [4020]. **1962** [4024]. **1965** [4026]. **1967** [4027]. **1970** [506]. **1971** [4030]. **1974** [4032]. **1976** [4036, 4033]. **1978** [4037]. **1981** [4042]. **1983** [4045, 4048]. **1984** [4052, 4050]. **1986** [4056, 4060]. **1987** [4061]. **1988** [4067, 4066, 4068, 4070, 4071]. **1989** [4076]. **1990** [4077, 4078, 4092]. **1991** [4084, 4085, 4090]. **1992** [4088, 4095, 4096]. **1994** [4106, 4108, 4116, 4109, 4110]. **1995** [4111, 4122, 4113]. **1996** [4136, 4124]. **1997** [4125, 4129]. **1998** [4142, 4135, 4143]. **1999** [4138, 4139]. **1a** [3432].

**2** [196, 221, 2294, 3429]. **2.4GHz** [3441]. **20** [2125, 2464]. **200** [303, 364]. **2000** [4160, 4149, 3157]. **2001** [4155, 4157]. **2002** [4158, 2663, 4165]. **2003** [2937]. **2004** [4163, 2663, 4175]. **2005** [4168, 4177]. **2006** [4186]. **2007** [4178, 3182, 4182]. **2008** [4183, 4185, 4193]. **2009** [4194]. **2010** [4196, 4201]. **2011** [4208]. **2014** [3782, 3821]. **2018** [3890]. **204** [1108]. **205** [1407, 1119]. **20MHz** [2585]. **20th** [4223, 4070, 4071]. **21st** [4135, 2826]. **22** [2915, 3641]. **22nd** [4139]. **235** [321]. **23rd** [4043]. **247** [324]. **24th** [4046]. **25** [2138]. **25th** [4049]. **266** [361, 362, 629]. **267** [363]. **27th** [4181]. **28th** [4064]. **29** [504, 807]. **294** [425]. **29th** [4085, 4069]. **2nd** [4042, 4055].

**3** [3148, 3777, 1977, 3430, 3784]. **3-Key** [2920]. **3.0** [2678]. **3.x** [2315]. **30** [3564]. **30th** [4075, 4096]. **31** [2598]. **31-bit** [772]. **31st** [4081]. **32-Bit** [1237, 3000, 3071, 1770, 3445]. **32-bit-word** [545]. **334** [434, 479]. **33rd** [4091]. **342** [459, 461]. **360** [814, 678, 478, 483, 492, 462]. **360/370** [722]. **369** [529]. **36th** [4163, 4114]. **370** [501, 619]. **37th** [4168, 4123]. **3800** [2121]. **381** [516, 624]. **38th** [4127]. **39th** [4178].

**4** [465, 673, 3431]. **4086** [2905]. **40th** [4183]. **41st** [4148]. **42** [693, 694]. **4217th** [3446]. **4217th-order** [3446]. **425** [597, 698]. **42nd** [4152]. **440** [3113]. **440-nA** [3113]. **441** [645]. **45nm** [3316, 3441]. **46** [2138]. **48** [497]. **48-Bit** [1044, 930]. **488** [675]. **4Gbps** [3316].

**5.0** [1669]. **5.2** [2802]. **500** [3369, 322]. **51st** [4202]. **52** [893]. **52nd** [4217]. **5th** [4184].

**6** [3688]. **60th** [4219]. **61** [1256]. **623-dimensionally** [2374]. **64-bit**



[2247, 761, 2708, 2858, 2538, 3561, 3566]. **647** [1223]. **659** [1325, 2773]. **668** [1359]. **678** [1438]. **6th** [4147].

**701** [155]. **71** [1267]. **712** [1736]. **738** [1894]. **76** [1035]. **780** [2344]. **79** [2171]. **7mW** [3441].

**8-bit** [2585]. **8.8/11.2** [4200]. **800** [3048, 3819]. **800-22** [3432]. **800-90** [3048]. **800-90B** [3819]. **802** [2505]. **806** [2529, 2530]. **8088/8086** [1269]. **80f** [934]. **82** [4044]. **82g** [1067]. **82h** [1035]. **84** [4054]. **85** [2049]. **'86** [4065]. **'87** [4062]. **'88** [4080]. **8th** [4212, 4068].

**'90** [4082, 3048, 2055]. **90/150** [2803]. **90/95** [2675]. **90B** [3819]. **'91** [4090]. **92** [717]. **'93** [4097, 4100]. **'94** [4107, 4108, 4109]. **947** [3737]. **'95** [4113, 4115, 2014]. **958** [3808]. **'96** [4119, 4124]. **'97** [4129, 2453]. **970** [3858]. **978** [3688]. **978-0-521-17561-6** [3688]. **978-0-88385-043-5** [3655]. **97j** [2294]. **'98** [4142, 769, 863]. **9th** [4200].

**=** [4019, 4030].

**A.2.4** [2920]. **AAECC** [4140]. **AAECC-13** [4140]. **AbBT** [1623]. **Absolute** [400, 371]. **Absorption** [290]. **Abstract** [2417, 1163, 1517, 2599, 1634, 1639, 1554, 1196, 3616, 1437, 2510, 1830, 3529, 1242, 2476, 2479]. **abstracts** [4090]. **abuses** [1389]. **AC** [1992]. **Accelerated** [3291, 1880, 3665, 3715, 3674, 3168]. **Accelerating** [2321, 3378, 3748]. **Acceleration** [3870, 2264, 3726, 3912, 1953]. **Accelerator** [3938]. **Acceptance** [1511, 3616, 1121, 976, 3793, 2895, 1007, 1035]. **Acceptance-Complement** [1121]. **Acceptance-Rejection** [1511, 3616, 3793, 2895, 1007, 1035]. **Acceptance/rejection** [976]. **Access** [1792, 2028, 3944, 2195, 1694, 1695, 3151, 2078, 2743]. **according** [11, 695]. **Accumulated** [338, 1987]. **Accuracy** [212, 2751, 1338, 1448, 652, 1183, 2558, 3108, 3542, 2453, 2714, 2937, 3182, 3297, 564, 3751, 574, 630, 2196, 3042]. **Accurate** [3042, 852, 3771, 3107, 601, 3692]. **Achieve** [3903]. **achieving** [440]. **Acknowledgement** [693, 694]. **ACM** [4105, 4056, 4061, 4067, 4077, 4088, 4097, 4106, 4111, 4138, 4145, 4158, 4168, 4178, 4183, 4195, 4204, 4211, 4218, 4085, 4172, 4194, 4109, 675, 501, 597, 516, 645, 361, 619, 3549, 529]. **ACM-SIAM** [4105]. **ACORN** [1476, 1784]. **acquisition** [2272]. **acquisition-processing** [2272]. **ACR** [1522]. **Actel** [3136]. **actions** [2056]. **Active** [3588, 3095]. **Actuarial** [4167]. **Acyclic** [1403]. **Ada** [1404, 2014, 1207, 1722, 1355]. **Adams** [2244]. **Adaptive** [3046, 2046, 2262, 3148, 916, 733, 3756, 3391, 2278, 3743, 3554, 805]. **Add** [1778, 2657, 1926, 1876]. **Add-with-Carry** [1778, 1876]. **Addendum** [1329]. **addition** [2196]. **additional** [804]. **additions** [2062]. **Additive** [2123, 2658, 906, 2244, 200, 185, 2073, 2074, 2863, 455, 633, 470, 555, 599, 600, 1969, 840, 2305, 3573, 3224, 3456]. **adic** [3397, 452, 453, 2407]. **Adjoint**



[2090]. **adjustable** [3241]. **Administration** [4118]. **Admissible** [3083].  
**Advanced** [1480, 1952, 4032, 4200, 4150, 2471, 2549]. **Advances** [4044, 4062, 4080, 1092, 4130, 4142, 2701, 4101, 2722, 4052, 4054, 4107, 4181, 4065].  
**Advancing** [4190]. **Adventures** [3961, 4126]. **adversaries** [3654]. **advised** [3826]. **aegis** [4026]. **AES** [2767, 2510, 2595, 2920]. **Affairs** [4026]. **Affects** [3949, 3497]. **Affine** [3809, 3909, 2545]. **Against** [2901, 4003, 3354, 3837, 1354, 3194, 3654, 3826, 3925]. **Age** [2751].  
**Agricultural** [24, 299, 47, 73, 114, 115, 171, 172]. **Ahead** [3062, 3146, 3147, 3339]. **Ahrens** [893]. **AI** [4009]. **aid** [2101]. **Aimed** [3032].  
**Air** [4027, 1910]. **AIS** [2598, 2464]. **AIX** [2802]. **Akima** [774]. **al.** [918].  
**Alabama** [4085]. **Alamos** [3729]. **Alberta** [4032]. **Alea** [3475]. **aléatoire** [393, 322, 802]. **aléatoires** [4011, 2825, 760, 2185, 284, 343, 2540, 1581].  
**aleatorios** [134]. **Alexandria** [4172]. **Alfred** [3276]. **Algebra** [2020, 3246, 1859, 3656, 4086, 3802, 4140, 424, 4086]. **Algebraic** [435, 4098, 3728, 1530, 4115, 2379, 2380, 526, 3984, 3906, 4140, 1361, 121, 663, 99, 286, 3893]. **Algebraic-Geometry** [2379]. **Algorithm** [3942, 754, 815, 2488, 2970, 900, 675, 1790, 544, 501, 758, 679, 1905, 1274, 2427, 2428, 2429, 2581, 105, 3147, 511, 1168, 2770, 1068, 597, 916, 1288, 4004, 3734, 516, 645, 27, 649, 2929, 3174, 3546, 1294, 1377, 1645, 1561, 2089, 836, 361, 2631, 619, 367, 529, 1989, 1990, 3440, 1874, 1996, 3858, 2882, 1047, 1582, 2220, 1048, 2653, 1880, 1671, 2959, 3793, 1887, 1889, 3353, 3115, 3045, 3668, 851, 1263, 1491, 757, 2413, 2490, 2899, 1104, 3839, 503, 3965, 552, 1156, 3260, 1279, 2160, 2758, 2586, 2913, 3519, 1166, 1120, 3164, 2923, 1450, 3935, 3971, 1739, 3816, 2866].  
**algorithm** [794, 2618, 1186, 1299, 2869, 3700, 3853, 2382, 1081, 3855, 1086, 702, 928, 622, 3783, 1571, 1868, 3554, 2106, 3444, 1780, 1781, 1309, 2399, 2400, 1667, 2120, 2960, 2888, 3979, 751, 3658, 805, 2745, 3942, 897, 816, 268, 269, 434, 1325, 1894, 717, 948, 504, 321, 951, 1108, 1223, 303, 769, 999, 324, 2344, 380, 1168, 863, 1068, 2505, 2773, 1359, 1438, 479, 3737, 308, 3808, 1736, 2529, 2530, 1182, 698, 362, 363, 364, 391, 314, 624, 843, 459, 461, 425, 629, 3858, 807, 1049, 1143, 3342, 3464, 1256]. **Algorithmic** [3372, 3905, 3939, 1748, 569, 1584, 4131]. **algorithmische** [569].  
**algorithmischer** [1748]. **Algorithms** [4105, 895, 897, 3831, 816, 1789, 2232, 1264, 2141, 717, 3132, 948, 1607, 504, 1107, 951, 1108, 1109, 1110, 3262, 1030, 769, 770, 999, 1928, 2992, 4141, 1167, 2593, 2687, 1168, 863, 644, 688, 1068, 1828, 1833, 2920, 2357, 2515, 2179, 1364, 2181, 1960, 2780, 486, 1182, 3938, 2197, 1303, 2208, 2211, 1771, 843, 2471, 4157, 4094, 4035, 807, 1049, 1143, 1256, 1675, 893, 3715, 2568, 1685, 3046, 2139, 1215, 2906, 2162, 2259, 4140, 1165, 3612, 2167, 1725, 1362, 1832, 1534, 1535, 3989, 2612, 1740, 3692, 1751, 3637, 3016, 1301, 1865, 2462, 3994, 3748, 1992].  
**algorithms** [1993, 4141]. **Alias** [2209, 2950, 1397, 1001, 919]. **alignments** [1887]. **All-Digital** [3316, 3441]. **All-Optical** [3629]. **alla** [469]. **Alley** [1989, 1874, 1996]. **Allocation** [644, 688, 730, 2665, 3391]. **Almost** [2979, 3614, 1479, 3955]. **Along** [3883]. **Alternating** [3086]. **Alternative** [3505, 824, 1939, 2612, 2795]. **Alternatives** [2455, 1224, 164, 50]. **Alto**



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574, 630, 669, 711, 3335, 3104, 2556, 3576, 3656, 2405, 1590, 1254, 2407, 2656, 2741, 3800, 1583, 3333, 1893, 322, 1581, 1501, 1002, 623, 891, 760, 1518, 1532, 1533, 1305, 2975, 3051]. **Generations** [3489, 3531, 3245, 2394]. **Generator** [3581, 1147, 3469, 1201, 1890, 3472, 3233, 3349, 2229, 3113, 2129, 295, 3481, 3588, 755, 3758, 3485, 1203, 3594, 1325, 903, 501, 1412, 819, 1493, 3494, 3363, 3982, 2019, 3127, 3244, 3365, 3960, 3999, 3599, 2023, 2417, 1152, 1602, 2326, 3248, 1906, 2902, 3904, 1608, 2754, 271, 2150, 3054, 3055, 3056, 3136, 3504, 2672, 2422, 2757, 3507, 3966, 1157, 3142, 2161, 3510, 1512, 3377, 822, 2500, 2682, 2909, 1347, 1427, 1515, 2432, 3378, 200, 243, 684, 1430, 3143, 3380, 3381, 3272, 507, 2990, 1284, 2437, 3274, 2840, 354, 3987, 1355, 3521, 1118, 3614, 3148, 2995, 1825, 4003, 2772]. **Generator** [1623, 3766, 2439, 3282, 1829, 3156, 1531, 1626, 3160, 3734, 2920, 2921, 3528, 1006, 332, 480, 1289, 3949, 3622, 3001, 647, 1736, 1737, 3174, 3810, 2932, 3400, 1545, 519, 520, 652, 2526, 1078, 2072, 2191, 1459, 1182, 2376, 2195, 1852, 3635, 3547, 3299, 1862, 3409, 3410, 3189, 3411, 3851, 3992, 926, 2383, 3086, 3087, 741, 1981, 3644, 839, 930, 1044, 229, 1569, 3953, 3434, 3200, 3649, 3312, 1192, 529, 530, 745, 933, 1573, 1574, 2391, 1575, 2104, 2640, 3032, 983, 2469, 3316, 3441, 887, 3034, 2109, 2880, 3564, 3095, 3208, 3209, 3321, 1472, 3211, 3322, 3788, 3214, 3451, 3325]. **Generator** [3326, 1582, 3327, 3329, 2114, 1669, 3334, 3336, 3575, 427, 1049, 1143, 1313, 1784, 3457, 3226, 3338, 3339, 3459, 3229, 3340, 3231, 3461, 3343, 1256, 3344, 3370, 2744, 3345, 2559, 1400, 813, 3347, 1594, 3896, 3232, 3107, 1676, 3110, 814, 3470, 3471, 2012, 2013, 2313, 2890, 1483, 3927, 2230, 3714, 3998, 3928, 1052, 3353, 1486, 465, 3483, 2895, 3669, 1684, 3117, 2896, 3757, 3238, 3357, 3118, 3119, 3239, 3240, 3487, 3488, 1410, 675, 1099, 3048, 633, 3241, 3759, 3242, 1601, 1899, 3362, 1413, 545, 3243, 3495, 1269, 320, 3129, 677, 678, 1697, 2830, 3131, 2026, 3498, 1414, 2493]. **generator** [3499, 1798, 3369, 990, 2670, 3671, 470, 3502, 3962, 3963, 551, 3258, 1106, 3984, 3373, 3138, 3058, 909, 1503, 1618, 1714, 1218, 1277, 1341, 761, 3506, 2908, 3726, 474, 722, 3508, 1509, 2583, 3727, 1280, 2835, 1344, 2339, 3674, 2585, 3842, 2684, 2435, 1164, 379, 411, 3379, 1519, 772, 774, 3270, 3271, 1352, 2047, 2165, 3061, 3611, 3968, 3273, 2049, 2050, 3843, 3518, 3277, 3522, 1933, 2351, 1936, 2918, 1940, 2505, 3066, 3149, 3281, 3682, 1231, 1622, 224, 382, 2272, 1232, 2438, 154, 2352, 1942, 2171, 2484, 2511, 3526, 2773, 1287, 1119, 3390, 3283, 1441]. **generator** [2176, 2177, 2276, 3157, 3158, 3284, 3161, 2514, 3912, 1005, 1446, 1629, 2922, 599, 600, 248, 782, 1122, 1366, 3392, 2282, 3285, 3393, 1009, 3166, 3286, 3287, 783, 2064, 2853, 2854, 2927, 3006, 3007, 2522, 1543, 483, 2611, 3534, 3535, 2933, 1842, 2855, 3398, 3537, 3540, 3811, 2186, 2706, 1961, 601, 1635, 650, 3541, 3692, 3295, 1547, 1548, 2288, 2708, 3403, 2860, 3544, 1968, 3741, 2374, 4008, 3545, 793, 454, 831, 2717, 794, 1079, 3406, 922, 833, 3407, 834, 3300, 3408, 1011, 1246, 3412, 660, 3193, 3699, 3084, 2204, 3307, 1464, 162, 491, 525, 3421, 969, 1653, 3194, 3885, 2385, 2541]. **generator** [2093, 1301, 801, 619, 2542, 1982, 3424, 621, 367, 3551, 1655, 3025, 2876, 2877, 3027, 1657, 3648, 704, 3786, 3823, 3028, 708, 1770, 2390, 3436, 492, 3554, 3555, 1661, 2103, 2213, 2214, 2638, 2948, 3975, 1869, 3438, 844, 1870, 289, 2949,



2467, 2641, 2806, 2551, 208, 2808, 3093, 2951, 3939, 3563, 2732, 1777, 2733, 2734, 2735, 2810, 2952, 2953, 3320, 3445, 3446, 3210, 3447, 3448, 1195, 2397, 3324, 1780, 3956, 2478, 3100, 3328, 3452, 3653, 3219, 3220, 3455, 3570, 3571, 1586, 3038, 3222, 3337, 3224, 1785, 3577, 3227, 3460, 3041, 3228, 3894, 2742, 2889, 3579, 3463, 2961, 3980, 3709, 1257]. **generator** [1593, 2310, 2962, 1885, 3501, 3604, 4005, 2003, 1216, 459, 461, 3217, 3332]. **Generatoren** [1051, 1053]. **Generators** [1395, 2561, 2311, 2818, 293, 3981, 2123, 2226, 2965, 3348, 1480, 3661, 3830, 3235, 3112, 2660, 2315, 3114, 2747, 2969, 579, 2133, 3352, 4011, 3480, 1599, 2234, 3591, 2137, 901, 3867, 3943, 1409, 3359, 3718, 2827, 2972, 3120, 2141, 904, 905, 3121, 1207, 2416, 907, 3366, 2418, 1210, 1271, 1329, 3130, 2901, 403, 2576, 1699, 3252, 1497, 1911, 1334, 1702, 1912, 2243, 3133, 3135, 3602, 3603, 3873, 2671, 721, 3606, 1337, 2032, 2152, 2153, 4002, 1419, 1338, 1613, 3139, 2042, 3505, 3944, 2677, 2983, 3609, 764, 821, 996, 1029, 1111, 1510, 3761, 1223, 723, 1114, 1813, 1514, 2987]. **Generators** [304, 769, 770, 1816, 2761, 2762, 2911, 3610, 3675, 3986, 3678, 2048, 2051, 2166, 3062, 3146, 3877, 3063, 2267, 2593, 2057, 2916, 863, 3386, 3970, 279, 327, 3931, 3932, 2696, 2355, 2178, 3686, 2598, 559, 2599, 1539, 1237, 1370, 1371, 1734, 2184, 2284, 2360, 2366, 2444, 2445, 2446, 2517, 2518, 2519, 2606, 2702, 2703, 3005, 3072, 3074, 3288, 3532, 3738, 3934, 4012, 3807, 1733, 3292, 3172, 2704, 2930, 2931, 3175, 3627, 3399, 2367, 4007, 1634, 2455, 3691, 358, 3814, 3815, 1179, 1181, 1846, 1848, 2782, 2712, 3181, 1641, 2716, 3695, 1462, 1550, 1552, 1749, 1293, 2197, 2619, 2790]. **Generators** [1855, 2626, 2723, 3639, 737, 872, 611, 655, 795, 796, 3638, 1860, 3778, 3418, 1385, 3086, 1977, 1083, 1767, 3782, 3821, 419, 1468, 2801, 3428, 3429, 3430, 3431, 2099, 3197, 803, 2634, 3432, 3199, 1658, 3433, 2100, 3313, 4009, 1091, 2464, 2636, 3030, 2215, 570, 2472, 2474, 535, 2644, 2645, 2395, 2882, 1393, 1578, 1778, 2001, 1138, 3449, 573, 2813, 3101, 1665, 1666, 2221, 1878, 2816, 3825, 806, 1312, 2117, 2483, 2655, 427, 1670, 428, 494, 3708, 849, 1674, 2408, 1051, 1145, 1199, 1314, 1316, 1478, 3659, 2657, 1886, 2485, 3108, 3109, 3828, 1260, 1401, 1320, 3753]. **generators** [498, 3660, 2126, 3585, 2128, 1679, 3111, 1681, 2314, 3476, 3663, 3795, 2317, 3586, 3666, 1053, 3043, 3587, 3716, 3351, 3236, 2568, 2015, 3796, 3116, 1685, 1148, 1054, 1407, 2897, 3868, 1055, 2898, 1204, 2017, 1689, 2663, 2749, 2973, 3047, 2414, 906, 1492, 1692, 2899, 1206, 719, 3125, 3720, 1903, 3128, 3902, 3670, 3497, 1904, 2146, 2238, 546, 2239, 1908, 2025, 2147, 2240, 1024, 1909, 3251, 2328, 1333, 1498, 1499, 3253, 1416, 1495, 1496, 3500, 1605, 1703, 2752, 2903, 3134, 3254, 3838, 1335, 1417, 634, 2904, 3256, 3257, 1609, 406, 1418, 2755, 2246, 2247, 2497, 1502, 3260, 1420]. **generators** [1421, 1505, 1711, 1340, 2906, 1923, 1924, 2041, 2159, 2256, 2335, 2336, 2425, 2577, 2578, 1718, 1159, 1811, 857, 952, 953, 1220, 1221, 1342, 1812, 2044, 3841, 439, 1031, 275, 2340, 860, 998, 2910, 3060, 3842, 1349, 3728, 2912, 3514, 2763, 1722, 1817, 771, 476, 1228, 1283, 1351, 2587, 2686, 2765, 2766, 3144, 3677, 3383, 1520, 3384, 1431, 1819, 1820, 1929, 686, 3969, 3519, 3520, 1930, 2054, 2268, 2269, 2348, 2592, 3844, 1432, 2271, 3681, 776, 3945, 865, 3385, 3280, 1433, 1941, 3524, 1170, 3684, 1725, 2508, 2509, 2996, 1526, 356, 383].



**generators** [2172, 2919, 1831, 2175, 2274, 2275, 2353, 2354, 3527, 1003, 3159, 1443, 2846, 917, 1727, 3165, 2442, 3529, 1731, 2923, 3000, 3070, 827, 1368, 1369, 1451, 1633, 1839, 2180, 2182, 2183, 2185, 2280, 2281, 2361, 2363, 2364, 2447, 2448, 2602, 2604, 2699, 2775, 2848, 2925, 3071, 3073, 3396, 1540, 3846, 1123, 2924, 3169, 3290, 2285, 1735, 3170, 1178, 1291, 3293, 869, 2614, 3879, 3397, 3076, 3936, 3178, 1239, 2188, 2706, 1964, 2069, 3628, 3296, 3630, 447, 448, 485, 521, 1637, 1743, 1965, 1967, 2783, 2710, 3179, 3917, 2372, 2617, 2861, 2862, 3631, 3694, 1745, 1970, 2373, 2375, 2785]. **generators** [3011, 3077, 1746, 1851, 791, 3183, 3079, 3405, 2788, 2867, 1748, 1644, 455, 3882, 3697, 3298, 2080, 3776, 1751, 610, 3083, 3302, 2198, 656, 1129, 1298, 1559, 2537, 2622, 2722, 1560, 1758, 1759, 3192, 2869, 3413, 3414, 617, 2540, 2871, 2941, 3020, 3417, 1652, 1131, 1300, 1386, 1465, 1761, 1762, 2092, 1387, 2095, 3422, 3021, 1133, 2098, 840, 2386, 3886, 1088, 1566, 878, 1089, 3822, 3787, 2298, 2102, 1572, 1868, 1391, 1471, 1772, 2879, 3704, 2637, 2729, 1773, 2466, 3439, 3995, 3856, 263, 2216, 1992, 1774, 3560, 2807, 2475, 3750, 3955, 3976, 1306, 3562].

**generators** [2642, 2643, 2476, 3318, 2881, 2305, 2648, 2811, 2954, 3035, 3036, 3096, 3444, 3566, 3567, 1662, 1876, 2000, 3097, 3213, 3706, 3751, 3450, 2956, 2649, 2479, 2650, 1664, 986, 2814, 3957, 2738, 2815, 3454, 1094, 2113, 1095, 3860, 3940, 2222, 1879, 3572, 1783, 2654, 2118, 2224, 2006, 462, 3456, 2309, 3040, 3458, 3826, 2743, 3341, 3342, 3791, 3465, 3466, 2322, 3168, 3291, 399, 514, 482].

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**Georgia** [4138, 4125, 4053]. **Germain** [2861]. **German** [1051, 632, 2963, 1053, 438, 471, 1501, 2680, 1031, 2431, 1228, 1351, 639, 640, 221, 246, 278, 1002, 331, 11, 33, 1748, 739, 666, 623, 531, 532, 569, 5, 1884, 891, 176].

**Germany** [4200]. **Getting** [3329, 2482]. **GFSR** [2049, 1400, 1424, 2050, 1745, 1970, 2378, 1307, 1308, 1393, 1875, 1999]. **GI** [1957]. **GI/G/1** [1957]. **Gibbs** [1795, 2029, 2046, 738]. **gigahertz** [1483].

**Gill** [506]. **Giovanni** [3688]. **Gitterstruktur** [1051]. **Given** [1101, 1212, 1607, 1527, 1, 3755, 151, 992, 260, 2302, 1667]. **giving** [141].

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**Gleitkommandarstellung** [666]. **glimpse** [779]. **Global** [3106, 733, 2200, 1357, 2201]. **GLP** [2674]. **Gmunden** [4100]. **GMW** [1135].

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**Process** [4001, 2068, 3316, 1705, 528, 982, 3332, 1592].  
**Process-Voltage-Temperature** [3316]. **Processes** [170, 300, 350, 1823, 2693, 689, 2441, 97, 102, 1062, 4199, 274, 198, 1521, 3616, 4024, 2600, 4006, 3882, 360, 1130, 1650, 2724, 228, 62, 1782, 319, 389, 394].



**Processing** [670, 3500, 4103, 4020, 3668, 1204, 4141, 1356, 2272, 1447, 3166, 3636, 3192, 1983, 1657, 2556]. **processor** [3353, 1524, 1525, 3689, 3331].  
**Processors** [2423, 3761, 4185, 3389, 3420, 3435, 3702, 3351, 3869, 1411, 1502, 1425, 1621, 1636, 1465, 3465, 3580]. **Produce** [1114, 3985, 3945]. **Produced** [1409, 3766, 559, 1083, 1084, 1410, 3061, 2279, 1559, 2734]. **Producing** [337, 359, 75, 76, 385, 2952]. **Product** [2596, 3068, 207, 3205, 899, 1159, 1937, 1240]. **Production** [169, 331, 176].  
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**progressive** [3892]. **project** [2587]. **Projections** [3153]. **proliferating** [3970]. **Proof** [2011, 2818, 2485, 718, 404]. **Proofs** [1957, 3633, 3774, 3923, 2824, 2433, 2098]. **Proper** [2129, 1347, 2230].  
**Properties** [581, 852, 2026, 548, 2333, 2338, 2908, 859, 507, 186, 2613, 446, 417, 741, 1878, 2890, 3586, 2414, 1898, 2240, 297, 1805, 2156, 2249, 2254, 2334, 2673, 2159, 724, 2339, 143, 2765, 1356, 914, 776, 2353, 1034, 3165, 1633, 3397, 1738, 1747, 1559, 99, 802, 2876, 3027, 3090, 2811, 1781, 2224]. **Property** [181, 3225, 3478, 1149, 3257, 3846, 1296, 804]. **property-based** [3846].  
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**Proved** [3717]. **Providence** [4051, 4194]. **Providing** [2008]. **Proving** [2686].  
**Ps** [3613]. **PSA** [4031]. **'pseudo** [2579, 1051, 2561, 496, 3347, 1147, 3981, 752, 943, 2316, 3114, 2893, 3928, 267, 2133, 988, 2822, 2748, 2232, 1599, 3591, 901, 1489, 543, 1023, 1097, 1203, 181, 1409, 1688, 2142, 239, 502, 183, 758, 2570, 585, 3365, 2023, 3248, 216, 1699, 217, 3500, 3602, 3502, 550, 2250, 3966, 1507, 2161, 3761, 3841, 1113, 1512, 1031, 1813, 408, 2500, 2909, 2987, 769, 770, 3378, 243, 1520, 2590, 3145, 3274, 1431, 353, 354, 380, 863, 2594, 1437, 1725, 355, 2692, 329, 3933, 155, 3388, 2513, 2921, 2774, 3169, 2613, 2932, 446, 3739, 249, 3538, 1239, 1634, 1374, 449].  
**Pseudo** [77, 1549, 1182, 2376, 2077, 131, 3299, 2619, 2790, 1554, 2457, 655, 614, 835, 874, 875, 1649, 206, 3992, 926, 3642, 2383, 3548, 361, 391, 1083, 741, 3023, 930, 1044, 2099, 229, 1569, 3199, 3088, 3953, 1770, 1575, 2639, 2640, 570, 192, 2469, 346, 535, 2109, 2880, 2647, 136, 3325, 3326, 573, 1582, 2813, 1666, 2220, 2221, 2738, 2815, 1048, 426, 1141, 1196, 806, 3334, 428, 1049, 1143, 2556, 808, 3578, 1256, 938, 1145, 1314, 1316, 1400, 3108, 1787, 2124, 2013, 1679, 3235,



3927, 3112, 3476, 3998, 3351, 3115, 2568, 3483, 3669, 2896, 1148, 2138, 1490].

**pseudo**

[3239, 1893, 2017, 675, 2414, 906, 104, 3759, 3362, 719, 3720, 3129, 760, 3249, 1024, 3498, 1415, 3252, 3499, 297, 3253, 3838, 1335, 438, 549, 586, 3257, 406, 113, 218, 1421, 1218, 1277, 1340, 322, 2908, 3906, 153, 1279, 242, 2044, 184, 766, 768, 1164, 1722, 1283, 1351, 477, 3271, 3843, 3518, 914, 2769, 1937, 1230, 3732, 3149, 224, 2508, 3282, 3390, 2276, 3159, 3284, 1004, 1629, 2922, 248, 1008, 1175, 3166, 3286, 2443, 2929, 2614, 1842, 3397, 3400, 1635, 3295, 3179, 3694, 3741, 2374, 284, 3545, 2788, 2867, 455, 794, 3776, 3014, 1751, 3407, 2290, 696].

**pseudo**

[798, 799, 800, 1185, 3412, 1563, 418, 2295, 491, 258, 1081, 3421, 3194, 3195, 663, 801, 664, 3855, 3424, 3646, 971, 3886, 567, 3025, 879, 3787, 708, 623, 3554, 3555, 2638, 3975, 2300, 1194, 345, 571, 3977, 3317, 2218, 2394, 2553, 2732, 165, 2397, 193, 1581, 3450, 3215, 2479, 3789, 3452, 1095, 3222, 3790, 2958, 3039, 1476, 3576, 3656, 3227, 3460, 2889, 3579, 3341, 3827, 3465, 3466, 438, 471, 640, 362, 629].

**pseudo-aléatoire** [1893, 322]. **pseudo-aléatoires** [760, 284, 1581].

**Pseudo-Casuali** [988]. **pseudo-disturbance** [1148]. **Pseudo-Inversen**

[1031]. **Pseudo-Random**

[496, 943, 2316, 2893, 267, 2133, 2232, 1599, 901, 543, 1023, 1097, 1203, 181, 1409, 239, 183, 758, 585, 2023, 3248, 216, 3602, 550, 3966, 1507, 3761, 1512, 1813, 408, 2909, 2987, 769, 770, 3378, 243, 3274, 353, 380, 863, 355, 329, 2513, 2921, 2613, 2932, 3739, 1374, 1182, 2077, 131, 2790, 2457, 655, 614, 874, 206, 3992, 926, 3642, 361, 391, 1083, 741, 1044, 2099, 229, 3953, 1575, 570, 2469, 346, 535, 2647, 136, 573, 1582, 1666, 2220, 2221, 426, 1141, 1196, 806, 3334, 428, 1049, 1143, 3578, 1256, 938, 2561, 752, 2748, 3591, 1489, 502, 217].

**Pseudo-random**

[3500, 2250, 2161, 1113, 2500, 1520, 1431, 2594, 1437, 1725, 3933, 1239, 1634, 77, 1549, 2376, 2619, 835, 875, 3548, 3023, 930, 3088, 1770, 2639, 2640, 192, 2109, 2880, 2738, 2815, 2556, 808, 1145, 1314, 1316, 1400, 3108, 1787, 2124, 2013, 1679, 3235, 3927, 3112, 3476, 3998, 3351, 2568, 3669, 2896, 2138, 1490, 2017, 675, 906, 104, 3759, 3362, 719, 3720, 3129, 3498, 1415, 3252, 3499, 297, 3253, 3838, 1335, 438, 549, 586, 3257, 406, 113, 218, 1340, 3906, 153, 1279, 242, 184, 766, 768, 1164, 1283, 1351, 477, 3518, 914, 2769, 1937, 1230, 3732].

**pseudo-random**

[224, 2508, 3282, 3390, 2276, 3159, 3284, 1004, 1629, 2922, 248, 1008, 1175, 2443, 2929, 2614, 1842, 3397, 3400, 3295, 3179, 3694, 3741, 2374, 284, 455, 794, 3776, 3014, 1751, 3407, 2290, 696, 798, 799, 800, 1185, 418, 2295, 491, 258, 3421, 663, 801, 664, 3855, 3646, 3025, 879, 3787, 3554, 3555, 2638, 3975, 1194, 345, 571, 3977, 3317, 2218, 2394, 2553, 2732, 165, 193, 3215, 2479, 1095, 3222, 2958, 3039, 1476, 3576, 3656, 3227, 3460, 3579, 3465, 3466, 629, 362].

**Pseudo-random-number** [3169, 2867, 2300]. **Pseudo-Randomness**

[2590, 3145, 2774, 446, 1688, 3538, 1554, 3195]. **pseudo-uniform** [1024].

**Pseudo-Zufallszafflen** [1051]. **Pseudo-Zufallszahlen** [438, 471, 640].

**pseudoentropy** [3653]. **pseudoinverses** [1031]. **pseudonoise** [2918].



**Pseudorandom** [2409, 2817, 2485, 2818, 2965, 3348, 1890, 3585, 3661, 3830, 850, 2229, 3477, 2315, 3352, 2016, 2135, 3354, 3756, 3485, 3867, 3943, 2898, 3594, 3595, 3359, 3718, 904, 905, 819, 2019, 3126, 1268, 2021, 1152, 1210, 1329, 2576, 2902, 3903, 548, 2669, 2671, 2496, 2151, 3606, 4002, 1709, 1217, 1611, 1612, 1613, 1616, 1712, 1915, 2034, 2037, 2040, 2154, 2248, 2252, 2979, 3139, 2158, 2333, 2042, 2255, 2337, 2983, 764, 2678, 1063, 822, 2430, 861, 2682, 1347, 1427, 1515, 3513, 1517, 1816, 2761, 442, 3514, 3610, 3675, 2436].

**Pseudorandom**

[2837, 3986, 3516, 3930, 2588, 2437, 3678, 1819, 1820, 1929, 2344, 2051, 2166, 3987, 3063, 1118, 3614, 1936, 4003, 3682, 1170, 3156, 1833, 2696, 2355, 867, 3947, 1445, 1727, 3529, 2599, 332, 3396, 4012, 1540, 1732, 1837, 3001, 1735, 3292, 649, 3810, 3536, 3399, 2367, 1544, 1963, 870, 3814, 3815, 519, 520, 651, 652, 871, 3630, 2072, 2073, 2074, 2712, 3010, 451, 2531, 2532, 2863, 1640, 3405, 3695, 3972, 606, 1292, 3633, 3773, 3774, 2717, 3635, 1295, 2197, 795, 796, 3638, 1558, 1861, 1973, 2085, 2086, 2199, 2458, 2625, 2720, 2939, 1560, 1758, 3778, 3415, 3640].

**Pseudorandom**

[927, 3086, 2725, 3643, 1132, 1981, 419, 1468, 2098, 1388, 2634, 3432, 1658, 3200, 882, 883, 1093, 884, 1992, 2467, 710, 3034, 2476, 2644, 2395, 1307, 1393, 1578, 1664, 1878, 2114, 3103, 3221, 2117, 2483, 2655, 1142, 494, 2959, 1882, 3229, 3826, 3791, 1674, 908, 2744, 1051, 1396, 2657, 1886, 1594, 3896, 1260, 1401, 1482, 2012, 498, 2313, 2128, 2890, 1483, 1402, 1681, 3663, 3795, 2968, 3478, 3586, 3664, 3716, 988, 2015, 1600, 2897, 3900, 1055, 1056, 1692, 3492, 401, 1794, 3799, 3961, 2666, 3670, 760, 2830, 1909, 469, 2026, 2328, 1700, 1701, 470, 3962, 471, 3256].

**pseudorandom** [472, 1106, 3605, 3984, 2247, 2497, 909, 1420, 1504, 1614, 1615, 1617, 1618, 1710, 1711, 1713, 1714, 1715, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 2035, 2036, 2038, 2039, 2155, 2156, 2157, 2249, 2251, 2253, 2329, 2330, 2331, 1339, 1341, 2254, 2334, 2673, 1924, 2041, 2159, 2256, 2335, 588, 589, 322, 3726, 1812, 2499, 1280, 1225, 1281, 1345, 2339, 2340, 860, 3842, 1349, 3728, 2912, 555].

**pseudorandom** [379, 2836, 772, 185, 640, 3909, 2765, 2503, 2766, 3144, 3677, 3762, 3384, 3969, 3519, 3520, 2052, 2054, 2266, 2268, 2269, 2346, 478, 2592, 2271, 865, 1433, 1941, 382, 2509, 2996, 414, 825, 1526, 1942, 2171, 356, 2172, 1287, 2919, 1831, 1362, 2176, 2177, 2514, 1443, 3913, 1236, 3165, 1446, 2442, 3988, 599, 600, 1366, 2924, 2064, 3290, 2285, 1178, 1291, 2610, 1543, 483, 869, 3535, 3177, 3740, 3811, 3916, 3936, 3178, 1373, 1455, 1741, 2069, 1849, 1968, 1969, 2450, 2529, 2530, 2373, 2375, 2785, 3011, 3077, 1851, 3816, 2787, 3079, 3937, 4008, 1551, 3636, 3301, 1011].

**pseudorandom** [3818, 2198, 656, 876, 1040, 1129, 1245, 1246, 1298, 1379, 1380, 1382, 1463, 1557, 1559, 1755, 1756, 1858, 1972, 2084, 2535, 2536, 2537, 2622, 2623, 2624, 2722, 2940, 3190, 1759, 3413, 3414, 3416, 617, 3699, 3853, 3779, 1652, 525, 2092, 837, 969, 458, 1982, 1133, 1655, 1470, 1088, 1566, 1043, 878, 3994, 3648, 2545, 3090, 706, 2390, 3436, 2212, 2948, 1392, 3439, 3557, 3995, 2949, 625, 984, 3750, 3955, 3976, 3939, 1776, 1308, 2000, 2956, 1780, 2650, 937, 3653, 3218, 3219, 3455, 2113, 493, 3940, 711, 2222, 1588, 2118].



[2119, 2224, 2402, 2482, 2006, 2960, 3104, 2742, 233, 810, 3980, 1593, 2009, 3501, 3333]. **pseudorandom-number** [2657]. **Pseudorandomness** [2964, 2228, 3360, 3596, 3964, 724, 2683, 2434, 2502, 3876, 3618, 3910, 2510, 2595, 2691, 2597, 2607, 2187, 3401, 2534, 1646, 2652, 3923, 2564, 2134, 2433, 3881, 3102, 2740, 2125]. **pseudozufallsvektoren** [1351]. **Pseudozufallszahlenfolgen** [623]. **pseudosluchainykh** [351]. **PSI** [1426]. **PSO** [4004]. **PUB** [1862]. **Public** [2321, 913, 2507, 1974, 2543, 3278, 2442, 3848]. **Public-Key** [913, 2507, 2543]. **Publications** [262, 394]. **Publicly** [3799, 3131]. **Published** [3688]. **PUF** [3983, 3993, 3974, 3857, 3888]. **PUF-TRNG** [3993]. **PUFs** [3922]. **Pulse** [3507, 1829, 677, 3508]. **Pulse-Excited** [3507]. **Pulse/Data** [1829]. **Pulses** [519, 520, 3337]. **punched** [36]. **punctured** [3776]. **Pure** [3850]. **Purpose** [1082]. **Purposes** [3941, 2931]. **PVT** [3441]. **PVT-variation** [3441]. **pW** [3369]. **pyramids** [1460]. **Python** [3736, 3626, 2370, 2371, 4221].

**Q.R.N.G.** [3473]. **QRNG** [4010, 4000]. **Qs** [3613]. **Quadratic** [2034, 2038, 2253, 659, 2089, 1651, 843, 1205, 1615, 1715, 1918, 2035, 2331, 1278, 2254, 1067, 1124, 972]. **Quadrature** [916, 787, 733, 1039, 396, 2504]. **Quality** [2136, 3497, 4002, 1826, 3932, 2692, 3766, 2072, 1091, 3098, 3214, 2959, 3282, 3236, 3353, 1909, 2578, 1938, 1942, 2171, 3166, 3286, 1961, 3541, 1968, 608, 2465, 2466, 2477, 2554, 2960, 2962]. **quanta** [1215]. **Quantendynamik** [11]. **Quantifiers** [3253]. **Quantis** [3652]. **Quantitative** [3114, 740, 4197, 3741]. **quantity** [227]. **Quantum** [3467, 3468, 3581, 2820, 3472, 3491, 3122, 3725, 3377, 3844, 3931, 1624, 3158, 3392, 3622, 3691, 3629, 3817, 3992, 1985, 3551, 3747, 530, 2641, 3093, 3562, 3101, 3337, 3958, 4005, 3345, 3582, 3361, 3671, 377, 3138, 3673, 3842, 3385, 3387, 2511, 3526, 3157, 11, 3634, 3697, 3408, 3425, 3994, 3438, 2806, 2551, 3318, 3565, 3324, 3956, 3328, 3654, 3571, 3038, 3335]. **Quantum-Mechanical** [530]. **Quantum-Safe** [3992]. **Quantumlike** [705]. **quark** [4126]. **'quasi** [2579, 903, 584, 3374, 2425, 116, 4004, 4186, 4193, 2780, 2081, 874, 1757, 4136, 4175, 1467, 2206, 1248, 1573, 1871, 1576, 3749, 1994, 2396, 315, 2886, 1311, 464, 1598, 2233, 902, 4198, 3874, 4160, 1352, 221, 222, 324, 1821, 2345, 4132, 2504, 2272, 2273, 2601, 2701, 3394, 2608, 1551, 3884, 4116, 4143, 4165, 2870, 3703, 1661, 1991, 1672, 495, 1257, 2851, 3167, 99]. **Quasi-** [1467]. **Quasi-Convergent** [315]. **Quasi-Monte** [4186, 4193, 4136, 4175, 1871, 3374, 2425, 2081, 874, 1757, 2206, 1576, 3749, 2396, 2886, 464, 4198, 4160, 4116, 4143, 4165, 902, 1821, 2504, 2701, 3394, 2608, 3884, 2870, 495, 2851, 3167]. **Quasi-Monte-Carlo** [99]. **Quasi-Random** [903, 4004, 1248, 1994, 1311, 584, 116, 1573, 1598, 2233, 3874, 1352, 221, 222, 324, 2345, 4132, 2273, 2601, 1551, 3703, 1661, 1991, 1672, 1257]. **quasi-white** [2272]. **quasicrystals** [2686]. **Quasigroup** [3078]. **Quasigroups** [3513]. **Quasirandom** [2562, 1325, 2141, 3493, 1223, 2201, 2873, 1774, 3245, 2773, 1372, 1858, 1861, 1872, 2105, 575]. **Quaternion** [3453]. **quatrième** [4019]. **Quebec** [4106, 4158]. **Query** [449]. **Quest** [1348, 3474]. **questions** [85].



**Queue** [989, 1956, 1957, 1021, 2758, 964, 3331]. **Queueing** [1403, 1242].  
**Queuing** [1485, 621, 803]. **Quick** [2032]. **QuickCheck** [3882]. **Quickly**  
 [1927]. **Quicksort** [2495]. **Quinary** [926]. **Quincunx** [3423]. **Quintessential**  
 [3423]. **quintic** [3058]. **quotient** [1240]. **quotients** [3605, 1243]. **QX** [4005].

**R** [2138, 3942, 3721, 3171, 3293]. **R16** [807]. **R18** [770]. **R24** [863]. **R52**  
 [1109]. **R53** [1110]. **R57** [1168]. **R58** [1182]. **Rabin** [1319]. **Racah** [424].  
**Rackoff** [1851]. **Radial** [348]. **Radiation** [338, 11]. **Radical** [324].  
**Radical-inverse** [324]. **radio** [497, 481]. **radioactive** [2887]. **Radisson**  
 [4060]. **Radix** [2172]. **Radix-** [2172]. **RAGE** [3087]. **RAGuard** [3925]. **rake**  
 [3277]. **Raleigh** [4096]. **Ralley** [1080]. **Ramage** [2883]. **Raman** [3491, 3725].  
**RAMs** [3273]. **Ramsey** [2398]. **RAN1** [2230, 2313]. **Rand**  
 [1300, 71, 89, 3223, 1365]. **RandNLA** [3802]. **Random**  
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 2660, 12, 3113, 2129, 2316, 3114, 2747, 2893, 2567, 2969, 3832, 3833, 295, 267,  
 349, 2133, 3352, 3353, 4011, 3480, 2822, 3044, 3481, 3588, 755, 1323, 3482, 400,  
 499, 581, 1487, 434, 2232, 2410, 180, 817, 946, 1599, 1685]. **Random**  
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 3494, 1207, 585, 3363, 3982, 2416, 2571, 3127, 3244, 3365, 3597, 3960, 3999, 2325,  
 3366, 3496, 3367, 3598, 376, 2572, 3599, 320, 2023, 2417, 1270, 1209, 1602, 2238,  
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 2677, 298, 3609, 1029, 1111, 1510]. **Random**  
 [1423, 378, 3509, 3761, 2584, 439, 3907, 300, 350, 723, 553, 1114, 858, 1512,  
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 412, 507, 2343, 2589, 2990, 1284, 3274, 65, 66, 74, 325, 353, 354, 3679, 556,  
 685, 2991, 380, 3062, 3146, 3764, 1355, 3521, 596, 912, 775, 2267]. **Random**  
 [4132, 2270, 1724, 2591, 1432, 2057, 245, 1823, 1934, 1935, 3765, 3681, 863, 3945,  
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3970, 279, 327, 3931, 597, 202, 1070, 2772, 154, 1525, 1623, 1358, 355, 3932, 2692, 329, 330, 383, 2693, 2694, 2844, 3766, 155, 2173, 2695, 3388, 2439, 118, 2513, 1073, 1360, 3619, 3620, 515, 4004, 1531, 1626, 2353, 1949, 3160, 3734, 1074, 2920, 1442, 1532, 866, 1533, 1627, 2178, 2921, 1834, 3686, 3162, 2598, 777, 826, 868, 1536, 730, 918, 1363, 1728, 3528, 2440, 225, 516, 645, 1730, 1448, 1537, 3736].

**Random** [2277, 1538, 559, 646, 1006, 1121, 480, 1237, 1289, 1541, 1632, 1734, 2184, 2284, 2360, 2362, 2363, 2364, 2366, 2445, 2446, 2517, 2603, 2604, 2605, 2606, 2702, 2703, 2850, 2851, 3003, 3005, 3072, 3074, 3167, 3288, 3531, 3532, 3623, 3738, 3767, 3934, 3949, 3622, 828, 1009, 3737, 3807, 3287, 1838, 1075, 1733, 647, 920, 1840, 3168, 3291, 2066, 1176, 3170, 3914, 3172, 1736, 1737, 2704, 3294, 2613, 3174, 3175, 3627, 2932, 3879, 3739, 249, 2616, 3690, 2778, 384, 4007, 692, 2368, 2455, 3691, 2780, 309, 358, 1545, 1374, 2068, 3813, 2369, 3628, 3629, 2189, 3543, 97, 254, 280, 281].

**Random** [282, 312, 337, 340, 449, 450, 522, 560, 693, 694, 789, 790, 967, 1076, 1077, 1179, 1181, 1457, 1638, 1845, 1846, 1847, 1848, 2070, 2071, 2449, 2526, 2782, 2859, 386, 605, 3632, 2191, 3181, 2193, 1641, 2713, 2716, 1642, 1459, 1182, 1462, 1039, 1550, 2077, 792, 2195, 389, 2078, 832, 1852, 561, 1128, 1293, 3546, 3742, 2079, 1183, 1294, 1377, 3081, 2378, 131, 416, 187, 456, 1080, 3186, 524, 390, 3299, 2790, 2539, 2626, 2723, 3639, 3819, 3082, 609, 737, 872, 2457, 417, 2291, 3409, 3410, 655, 2620, 2621, 1856, 2083, 3189, 614, 874, 1757].

**Random** [1860, 3851, 1760, 2293, 968, 2203, 3304, 343, 1562, 659, 1649, 3193, 206, 698, 3992, 926, 2540, 2871, 3418, 1385, 3419, 3642, 2383, 2090, 836, 1, 3950, 1187, 1465, 1763, 3087, 1977, 1082, 1653, 2459, 970, 2205, 3308, 2798, 1979, 2095, 1188, 361, 391, 457, 1980, 1083, 741, 365, 526, 1467, 1767, 3952, 3919, 3425, 3550, 3644, 148, 392, 2632, 701, 527, 3782, 3821, 620, 703, 1985, 2873, 528, 839, 3310, 1768, 55, 57, 2801, 262, 1987, 1044, 3428, 3429, 3430, 3431, 1089, 368, 2099, 229, 3197, 1568, 931, 1013, 803, 1569, 2634, 3432, 3199, 3953, 1866].

**Random** [2463, 3701, 3433, 3434, 3649, 2946, 2100, 3887, 3747, 1248, 3312, 3313, 1570, 707, 1091, 1192, 529, 369, 287, 2464, 2636, 979, 980, 1015, 1045, 1092, 530, 2878, 3202, 745, 624, 933, 3030, 207, 420, 421, 1574, 1193, 371, 746, 2391, 1575, 2104, 3440, 3032, 983, 2215, 533, 570, 2950, 461, 1872, 2469, 627, 423, 2472, 2474, 628, 886, 1251, 1994, 149, 394, 395, 534, 3316, 3441, 887, 1305, 208, 346, 535, 3207, 425, 2304, 536, 3094, 2552, 3564, 629, 3095, 3857, 3888, 2645, 845, 888, 889, 985, 2305, 2306, 2394, 2647, 3208, 3209].

**Random** [2882, 136, 373, 3321, 2955, 1472, 1473, 2001, 3211, 3322, 1138, 3098, 3212, 3449, 3788, 1580, 9, 107, 210, 3214, 3451, 168, 3325, 3326, 2884, 573, 667, 1047, 1582, 2398, 2813, 315, 3101, 1665, 3327, 3216, 3217, 1666, 2220, 2221, 3329, 1048, 3453, 1094, 426, 2114, 2816, 1141, 1196, 1311, 3569, 537, 538, 1585, 2555, 1197, 3332, 1668, 848, 713, 806, 1669, 939, 2223, 3334, 1312, 2481, 3336, 3575, 427, 428, 890, 1049, 1143, 1313, 1784, 3457, 3225, 750, 809, 70, 3226, 3338, 2406, 1254, 1786, 1591, 2308, 266, 941, 2656, 429, 3708, 3339, 3459, 3578, 3657].

**Random** [3340, 1477, 1673, 3231, 3461, 849, 3343, 1256, 3958, 3344, 2558, 2408, 3800, 405, 3370, 938, 3345, 3710, 3895, 2559, 430, 1145, 1199, 1314, 1315, 1316, 1478, 3659,



2560, 2561, 3793, 631, 632, 1398, 316, 1400, 813, 715, 3347, 3997, 1259, 3862, 3108, 3109, 1887, 1479, 1320, 1676, 3110, 814, 3470, 3471, 1595, 1677, 3753, 752, 1261, 1787, 2124, 497, 3660, 2013, 2126, 3864, 3585, 1679, 1484, 898, 1020, 1680, 3234, 3235, 432, 433, 3927, 2314, 899, 3112, 3476, 1891, 1682, 2230, 1322, 2891, 2317, 3714, 3755, 3998, 3928, 3479, 3665, 3666, 3715, 1262, 1892, 2131].

**random**

[1052, 1053, 3043, 3587, 3351, 150, 3236, 580, 3115, 2568, 2569, 3796, 1486, 1597, 1683, 465, 673, 2748, 3483, 3116, 318, 2894, 2895, 3668, 3669, 1684, 3117, 1405, 2896, 1598, 2233, 2411, 3591, 3592, 3835, 3866, 851, 1489, 716, 582, 2138, 3757, 1490, 2825, 3237, 3238, 3357, 1407, 500, 2139, 3118, 3119, 3239, 3240, 1149, 756, 235, 3488, 818, 194, 1893, 1204, 2017, 182, 1491, 238, 675, 1689, 2663, 2973, 3047, 1691, 1099, 583, 71, 89, 947, 1205, 3048, 3719, 2414, 2750, 633, 906, 1693, 104, 3241, 3759, 195, 1206, 502, 584, 3836, 2570, 1267, 1601, 1899, 3362].

**random**

[1413, 719, 545, 676, 1059, 3125, 3243, 3495, 3720, 3721, 3049, 1902, 1903, 3128, 1269, 3129, 37, 3902, 3760, 214, 215, 3497, 1904, 2146, 546, 677, 3249, 678, 1697, 1272, 1604, 2024, 2239, 3131, 2025, 2147, 2240, 2327, 2492, 2975, 1024, 404, 3250, 3251, 3498, 1330, 1414, 1494, 1415, 3252, 3499, 1332, 217, 297, 1333, 1498, 1499, 1798, 3253, 3369, 990, 1416, 1496, 3500, 1605, 1606, 1703, 1704, 2670, 2752, 2831, 3671, 3838, 1335, 3502, 991, 992, 1025, 1060, 1102, 1104, 1105, 1214, 1705, 1800, 1913, 634, 993, 438, 549, 586, 681, 43, 3257, 1609, 3053, 1501, 3258].

**random** [3371, 406, 3672, 995, 1802, 113, 3373, 3057, 1418, 2755, 377, 2246, 1027, 3138, 3058, 218, 3260, 682, 1421, 2250, 1218, 1277, 1340, 587, 2906, 2756, 2424, 2577, 2578, 1062, 3506, 3874, 3140, 2833, 1422, 2908, 3906, 2426, 153, 1279, 2834, 722, 1158, 2160, 2427, 2428, 2429, 2581, 1718, 3508, 141, 1159, 1509, 2161, 2583, 1811, 1220, 1221, 1342, 242, 2044, 1222, 3841, 48, 60, 91, 92, 592, 593, 273, 184, 274, 1113, 765, 1224, 725, 3727, 766, 1065, 1344, 1031, 2984, 3674, 823, 2431, 2500, 998, 2585, 3842, 116, 142, 2684, 768, 199].

**random** [219, 2435, 174, 475, 910, 955, 2989, 1164, 411, 2763, 3379, 2764, 1722, 1519, 1817, 443, 1282, 771, 773, 1001, 476, 1228, 1283, 1351, 83, 93, 477, 774, 2587, 3270, 3271, 1352, 3382, 3803, 2047, 2165, 3383, 3273, 1520, 3612, 221, 222, 324, 1431, 75, 1117, 2049, 2050, 3843, 3518, 686, 1930, 3064, 3277, 956, 3522, 2345, 2348, 1067, 1933, 2055, 3844, 381, 1521, 914, 2769, 2917, 3680, 776, 305, 687, 1937, 1069, 2918, 1522, 1824, 1827, 1938, 2506, 2771, 3731, 1434, 67, 76, 3616, 1230, 3732, 3149, 2594, 3281, 3946, 1231, 1622, 3524, 224, 3525].

**random** [1002, 3684, 1436, 1437, 1725, 2508, 3151, 1232, 2438, 1726, 1524, 2352, 3387, 2273, 2484, 1071, 2511, 3933, 3526, 1943, 1171, 331, 959, 3154, 3282, 3067, 1286, 84, 1172, 21, 1233, 95, 1119, 2174, 1440, 2919, 3390, 3283, 1441, 2175, 2274, 2275, 2354, 3527, 1003, 1948, 1950, 1034, 2276, 3157, 3158, 3159, 3284, 3161, 1004, 729, 26, 31, 32, 1444, 2846, 3912, 3948, 778, 917, 1005, 1235, 2847, 479, 2356, 357, 780, 1628, 307, 2358, 1629, 1447, 2922, 3735, 2442, 4024, 919, 1007, 1035, 248, 3845, 2697, 3069, 2923, 3000, 3070, 782, 1122, 827, 3989, 3392, 1369, 1633, 1839, 1958].

**random** [2180, 2185, 2280, 2281, 2282, 2283, 2361, 2365, 2601, 2602, 2700, 2848, 2925, 2926, 3071, 3073, 3847, 3285, 1008, 1175, 3393, 1123, 3166, 3286,



2443, 1953, 1954, 783, 481, 2852, 2854, 3007, 3169, 1959, 3768, 3624, 2609,  
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