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

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Title word cross-reference

#14 [2345]. **#15949** [898]. **#4059** [1279]. **#8373** [2161].

$(0, 1)$ [1088]. $(0, s)$ [2612, 3031]. $(a^n - 1)/(a - 1)$ [946]. (j, ϵ) [751]. $(n^2\alpha)$ [2563]. $(n^k\alpha)$ [2564]. $(n\alpha)$ [2563]. (t, m, s) [2103, 2986, 2109, 2418]. (t, s) [2711, 2103, 2409, 2986, 2109]. (X, Y) [3783]. $(X^2 - Y^2)^{1/2}$ [502]. $0.1(0 \times 1)0 \times 9$ [141]. 1 [758, 902, 2934, 173, 306, 733, 3067, 3069]. $1, 2, 3$ [3628]. $1.13198824\ldots$ [2587]. $10,000$ [285]. **$10.00** [170]. 10^{2857} [2558]. 10^{435} [2100]. 1200μ [3245]. 128 [3271]. 13 [273]. 16 [273]. 2 [2934, 2181, 958, 3205, 2572, 2911, 3071, 398]. 2,000 [87]. **$24.95** [2148]. $2^{-31} - 1$ [861, 959]. 2^{15} [2200]. $2^{31} - 1$ [3680, 825, 1004, 1038, 1231, 1232]. $2^{31} - 69$ [3514]. $2^{32} - 1$ [1121]. 2^{α} [1517, 2303]. 2^{β} [1354, 1524, 1777]. 2^k [2692]. 2^{k-1} [2692]. 2^p [3367]. $2^p - 1$ [2338]. 2^t [4043]. 3 [1834, 3833]. 32 [3772]. 4 [273]. 48 [248]. 5 [273]. **$52.95** [3735]. 64 [3974]. $[0, 1]$ [219, 873]. $^{-1}$

[3773]. ^{2} [3245]. $_\tau$ [2440, 2009]. a [370]. $a = \pm 2^q \pm 2^r$ [2474, 2550]. a_n [669]. $\alpha \geq 1$ [3776]. $\alpha\lambda$ [735, 736]. b [2197, 3465]. $b = 2, 3, 5, 6, 7, 10, 11, 12$ [1068, 1339, 2699]. $b^n \pm 1$ [1068, 1339, 2699]. $\beta = 32$ [1354]. $\beta = 48$ [1354]. $\beta \simeq 32$ [1524]. $\beta \simeq 48$ [1524]. $\left\{\frac{a}{m}j^2\right\}, \left\{\frac{a}{m}(j+\tau)^2\right\}$ [328]. mod1 [301, 302, 409, 661, 744, 666]. mod$n$ [2268]. C^∞ [1298]. $C\exp(-\lambda|x|^\nu)$ [1505]. χ^2 [350, 954, 1118, 1119, 1120, 6, 7]. D [2444, 1854, 3079, 2139]. d^2 [93]. e [81, 1543, 87, 373]. ϵ [1959]. F_2 [3115, 3126, 3974, 3353]. F_{2^w} [2912]. G [455, 456]. Γ [1253, 1226]. j [2064]. K [2255, 3994, 1493, 3962, 3996, 1812, 2172, 1073, 1356, 1966, 3831, 3867, 1139, 1395, 2018]. $k > 1$ [1384]. L^2 [2088, 2014]. L_2 [2192]. L_p [2471]. λ [2901]. M [1472, 1236, 1202, 854, 472, 1075, 1043, 449, 250, 1388, 2218, 2404, 2132, 2243, 2245, 2334, 1150, 231]. $\mathbf{F}_2$ [3208, 3591, 3817]. $\mathbf{F}_{2^w}$ [3070]. $\mathbf{F}_q$ [3329, 3649]. $\mathbf{F}_{q^m}$ [3329, 3649]. $\mathbf{R}^d$ [4114]. $\mathbf{F_2}$ [3592]. GF(2^{m}) [1602]. μ [3308]. N [1168, 922, 270, 1344, 1722, 1723, 2289, 732, 3828, 205, 625, 196, 2873, 201, 1559, 3951, 806, 207, 432, 809]. O(3) [1604]. $O(n(1 + \log(N/n)))$ [1976]. P [6, 730, 4021, 4103, 3250, 2494, 2236, 4012, 3467, 2249, 2436]. $\partial^2 u/\partial x^2 + \partial^2 u/\partial y^2 + (K/y)(\partial u/\partial y) = 0$ [197]. π [2949, 81, 1543, 87, 285, 288, 3006]. ± 1 [669]. $\pm 2^{k_1} \pm 2^{k_2}$ [2338]. $\pm 2^{p_1} \pm 2^{p_2}$ [2684]. q [2576]. S [1037, 1917]. σ [1604]. $\sqrt{2}$ [412, 444]. $\sum a_n/n$ [669]. T [2645, 2929, 1907, 855, 1917, 1342, 3120, 872, 968, 973, 40]. $U(0, 1)$ [2800]. W [3455]. $X(I + 1) = AX(I) \bmod 2^{31}1$ [787]. X/Z [3783]. $x^2 \bmod N$ [2047]. $X_{n+1} = a_n X_n + b_n \pmod p$ [1839]. $X_t = X_{t-3p} \oplus X_{t-3q}$ [1527]. Y/Z [3783]. $y = [(a + x)\sin(bx)] \bmod 1$ [2416]. Z [3783]. Z/nZ [1950]. Z_p [1426].

good [2743].

-adic [3465, 456, 455, 2436]. **-biased** [1959]. **-Bit** [3271, 3974, 248]. **-concave** [2645]. **-D** [3205]. **-deformed** [2576]. **-dependent** [1959]. **-Detection** [3951]. **-digit** [273]. **-Dimensional** [270, 196, 201, 922, 1559, 2018, 1812, 809, 205, 1344, 3079]. **-discrepancy** [2088]. **-distributed** [1356]. **-Distribution** [973, 1907, 1073]. **-distributions** [1854, 2139]. **-échantillon** [806]. **-estimates** [1472]. **-Fock** [2576]. **-function** [2064, 2901]. **-functions** [1298]. **-homomorphism** [2444]. **-Linear** [3115, 3208, 3974, 3126, 3353, 3591, 3592, 3817]. **-model** [1604]. **-net** [2103]. **-Nets** [2986, 2109, 2418]. **-nm** [3772]. **-observation** [1722, 1723]. **-quanta** [1226]. **-Random** [2249]. **-sample** [806]. **-sequence** [1043, 1388, 2404, 2103, 1236, 1202]. **-Sequences** [854, 2612, 3031, 449, 2409, 2986, 2109, 2711, 1075, 2218, 2132, 2243, 2245, 2334]. **-sphere** [1150, 432]. **-step** [1139, 1395]. **-System** [2255]. **-values** [4012, 730, 3250]. **-Vector** [3996, 3962, 3831, 3867]. **-wise** [3994, 1493, 2172, 1966].

/dev/random [2782, 3752, 2841, 2936]. **/dev/urandom** [2841].

0 [994]. **0-471-01751-5** [994]. **0.57pJ** [3381]. **0.57pJ/bit** [3381]. **'05** [4291, 4295]. **'07** [4301]. **'08** [4306].

1 [768, 1077, 1972, 1973, 3496, 3397]. **1.04** [3308]. **1.1** [3859]. **1.6** [3773]. **'10** [4320, 915]. **1013** [4049]. **106** [1120, 847]. **10th** [4148, 4296]. **11** [1348]. **111** [820]. **11th** [4144, 4316, 4227]. **12** [898]. **120** [2931]. **128-bit** [2528, 3264]. **12th** [4295]. **'13** [4342]. **133** [268, 269, 308, 314]. **134** [902]. **13th** [4263]. **14th** [4302, 4230]. **153** [957, 1119, 1120]. **155** [954, 1120]. **157** [1007]. **16** [2947, 1515, 3078, 940]. **16-Bit** [1301, 1915, 764, 1515, 2239]. **16-bit-PC** [1515]. **160** [2546]. **16th** [4213]. **1750** [1930]. **17th** [4320]. **181** [1878]. **183** [1193, 1059, 1153, 1268]. **193** [1179, 1078]. **1949** [4136]. **1953** [4139]. **1954** [4140]. **1957** [4141]. **1960** [4142]. **1962** [4146]. **1965** [4148]. **1967** [4150]. **1970** [509]. **1971** [4153]. **1974** [4155]. **1976** [4159, 4156]. **1978** [4160]. **1981** [4165]. **1983** [4168, 4171]. **1984** [4175, 4173]. **1986** [4179, 4183]. **1987** [4184]. **1988** [4190, 4189, 4191, 4193, 4194]. **1989** [4199]. **1990** [4200, 4201, 4215]. **1991** [4207, 4208, 4213]. **1992** [4211, 4218, 4219]. **1994** [4229, 4231, 4239, 4232, 4233]. **1995** [4234, 4245, 4236]. **1996** [4259, 4247]. **1997** [4248, 4252]. **1998** [4265, 4258, 4266]. **1999** [4261, 4262]. **1a** [3500].

2 [196, 221, 2322, 3497]. **2.4GHz** [3509]. **20** [2148, 2495]. **200** [303, 365]. **2000** [4283, 4272, 3219]. **2001** [4278, 4280]. **2002** [4281, 2698, 4288]. **2003** [2984]. **2004** [4286, 2698, 4298]. **2005** [4291, 4300]. **2006** [4309]. **2007** [4301, 3246, 4305]. **2008** [4306, 4308, 4317]. **2009** [4318]. **2010** [4320, 4325]. **2011** [4332]. **2014** [3874, 3915]. **2018** [3989]. **204** [1118]. **205** [1420, 1129]. **20MHz** [2618]. **20th** [4347, 4193, 4194]. **21st** [4258, 2866]. **22** [2961, 3050, 3721]. **22nd** [4262]. **235** [321]. **23rd** [4166]. **247** [324]. **24th** [4169]. **25** [2161]. **256** [2930]. **25th** [4172]. **266** [362, 363, 632]. **267** [364]. **27th** [4304]. **28th** [4187]. **29** [507, 811]. **294** [428]. **29th** [4208, 4192]. **2nd** [4165, 4178].

3 [3673, 4127, 3210, 3869, 1995, 3498, 3876]. **3-Key** [2967]. **3.0** [2713]. **3.x** [2344]. **30** [3639]. **30th** [4198, 4219]. **31** [2632]. **31-bit** [776]. **31st** [4204]. **32-Bit** [1248, 2985, 3010, 3051, 3125, 1785, 3513]. **32-bit-word** [548]. **334** [437, 482]. **33rd** [4214]. **342** [462, 464]. **360** [818, 682, 481, 486, 495, 465]. **360/370** [726]. **369** [532]. **36th** [4286, 4237]. **370** [504, 622]. **37th** [4291, 4246]. **3800** [2144]. **381** [519, 627]. **38th** [4250]. **39th** [4301].

4 [468, 677, 3499]. **4086** [2950]. **40th** [4306]. **41st** [4271]. **42** [697, 698]. **4217th** [3514]. **4217th-order** [3514]. **425** [600, 702]. **42nd** [4275]. **440** [3170]. **440-nA** [3170]. **441** [649]. **45nm** [3381, 3509]. **46** [2161]. **48** [500]. **48-Bit** [1054, 936]. **488** [679]. **4Gbps** [3381].

5 [994]. **5.0** [1683]. **5.2** [2841]. **500** [3436, 322]. **51st** [4326]. **52** [898]. **52nd** [4341]. **5869** [4130]. **5th** [4307].

6 [3771]. **60th** [4343]. **61** [1268]. **623-dimensionally** [2403]. **64-bit** [2273, 765, 2743, 2899, 2570, 3636, 3641]. **647** [1234]. **659** [1337, 2811]. **668** [1372]. **678** [1451]. **6th** [4270].

701 [155]. **71** [1279]. **712** [1751]. **738** [1910]. **76** [1044]. **780** [2373]. **79** [2196]. **7mW** [3509].

8-bit [2618]. **8.8/11.2** [4324]. **800** [3100, 3913]. **800-22** [3500]. **800-90** [3100]. **800-90B** [3913]. **802** [2536]. **806** [2561, 2562]. **8088/8086** [1281]. **80f** [940]. **82** [4167]. **82g** [1077]. **82h** [1044]. **84** [4177]. **85** [2070]. **'86** [4188]. **'87** [4185]. **'88** [4203]. **8th** [4336, 4191].

'90 [4205, 3100, 2076]. **90/150** [2842]. **90/95** [2710]. **90B** [3913]. **'91** [4213]. **92** [721]. **'93** [4220, 4223]. **'94** [4230, 4231, 4232]. **947** [3825]. **'95** [4236, 4238, 2035]. **958** [3902]. **'96** [4242, 4247]. **'97** [4252, 2483]. **970** [3955]. **978** [3771]. **978-0-521-17561-6** [3771]. **978-0-88385-043-5** [3735]. **97j** [2322]. **'98** [4265, 773, 867]. **9th** [4324].

= [4141, 4153].

A.2.4 [2967]. **AAECC** [4263]. **AAECC-13** [4263]. **AbBT** [1637]. **Absolute** [402, 372]. **Absorption** [290]. **Abstract** [2446, 1173, 1531, 2633, 1648, 1653, 1568, 1207, 3694, 1450, 2541, 1846, 3603, 1254, 2507, 2510]. **abstracts** [4213]. **abuses** [1402]. **AC** [2010]. **Accelerated** [3356, 1896, 3745, 3801, 3755, 3230]. **Accelerating** [2350, 4127, 3445, 3837]. **Acceleration** [3967, 2290, 3813, 4016, 1969]. **Accelerator** [4044]. **Acceptance** [1525, 3694, 1131, 982, 3885, 2938, 1015, 1044]. **Acceptance-Complement** [1131]. **Acceptance-Rejection** [1525, 3694, 3885, 2938, 1015, 1044]. **Acceptance/rejection** [982]. **Accepting** [2336, 2027]. **Access** [1808, 2049, 4053, 2221, 1709, 1710, 3213, 2099, 2779]. **according** [11, 699]. **Accumulated** [339, 2005]. **Accuracy** [212, 2789, 1350, 1462, 656, 1194, 2590, 3163, 3616, 2483, 2749, 2984, 3246, 3362, 567, 3840, 577, 633, 2222, 3093]. **Accurate** [3093, 856, 3863, 3162, 604, 3775]. **Achieve** [4002]. **achieving** [443]. **Acknowledgement** [697, 698]. **ACM** [4228, 4179, 4184, 4190, 4200, 4211, 4220, 4229, 4234, 4261, 4268, 4281, 4291, 4301, 4306, 4319, 4328, 4335, 4342, 4208, 4295, 4318, 4232, 679, 504, 600, 519, 649, 362, 622, 3624, 532]. **ACM-SIAM** [4228]. **ACORN** [1490, 1800]. **acquisition** [2299]. **acquisition-processing** [2299]. **ACR** [1536]. **Actel** [3198]. **actions** [2077]. **Active** [3663, 3150]. **Actuarial** [4290]. **Acyclic** [1416]. **Ada** [1417, 2035, 1218, 1737, 1368]. **Adams** [2270]. **Adaptive** [3098, 2067, 2288, 3210, 922, 737, 3845, 3459, 2305, 3831, 3629, 809]. **Add**

[1794, 2692, 1942, 1892]. **Add-with-Carry** [1794, 1892]. **Addendum** [1341]. **addition** [2222]. **Additional** [3241, 808]. **additions** [2083]. **Additive** [2146, 2693, 912, 2270, 200, 185, 2094, 2095, 2904, 458, 636, 473, 558, 602, 603, 1986, 844, 2333, 3648, 3288, 3525]. **adic** [3465, 455, 456, 2436]. **Adjoint** [2111]. **Adjustable** [4128, 3305]. **Administration** [4241]. **Admissible** [3137]. **Advance** [4132]. **Advanced** [1494, 1968, 4155, 4324, 4273, 2502, 2581]. **Advances** [4167, 4185, 4203, 1102, 4253, 4265, 2736, 4224, 2758, 4175, 4177, 4230, 4304, 4188]. **Advancing** [4314]. **Adventures** [4071, 4249]. **adversaries** [3734]. **advised** [3921]. **aegis** [4148]. **AES** [2805, 2541, 2629, 2967]. **Affairs** [4148]. **Affects** [4058, 3568]. **Affine** [3903, 4011, 2577]. **Against** [2944, 4116, 3420, 3932, 1367, 3258, 3734, 3527, 3921, 4031]. **Age** [2789]. **Agricultural** [24, 299, 47, 73, 114, 115, 171, 172]. **Ahead** [3115, 3208, 3209, 3405]. **Ahrens** [898]. **AI** [4122]. **aid** [2123]. **Aimed** [3083]. **Air** [4150, 1926]. **AIS** [2632, 2495]. **AIX** [2841]. **Akima** [778]. **al.** [924]. **Alabama** [4208]. **Alamos** [3816]. **Alberta** [4155]. **Alea** [3545]. **aléatoire** [1909, 322, 806]. **aléatoires** [4133, 2865, 764, 2210, 284, 344, 2572, 1595, 905]. **aleatorios** [134]. **Alexandria** [4295]. **Alfred** [3341]. **Algebra** [2041, 3310, 1875, 3736, 4209, 3896, 4263, 427, 4209]. **Algebraic** [438, 4221, 2788, 3815, 1544, 4238, 2408, 2409, 529, 3527, 4096, 4007, 4263, 1374, 121, 667, 99, 286, 3992]. **Algebraic-Geometry** [2408]. **Algorithm** [4049, 758, 819, 2519, 3020, 906, 679, 1806, 547, 504, 762, 3673, 683, 1921, 1286, 2457, 2458, 2459, 2613, 105, 3209, 514, 1179, 2808, 1078, 600, 922, 1300, 4117, 3822, 519, 649, 27, 653, 2976, 3236, 3620, 1306, 1390, 1659, 1575, 2110, 840, 362, 2666, 622, 368, 532, 2007, 2008, 3508, 1890, 2015, 3955, 2923, 1057, 1596, 2246, 1058, 2688, 1896, 1685, 3008, 3885, 1903, 1905, 3419, 3172, 3097, 3748, 855, 1275, 1505, 761, 2442, 2521, 2942, 1114, 3934, 506, 4075, 555, 1166, 3324, 1291, 2185, 2796, 2620, 2959, 3591, 1177, 1130, 3226, 2970, 1464, 4041, 4082, 1754, 3910]. **algorithm** [2907, 798, 2653, 1197, 1311, 2910, 3785, 3950, 2411, 1091, 3952, 1096, 706, 934, 625, 3875, 1585, 1884, 3629, 2128, 3512, 1796, 1797, 1321, 2428, 2429, 1681, 2143, 3009, 2929, 4091, 755, 3738, 809, 2781, 4049, 902, 820, 268, 269, 437, 1337, 1910, 721, 954, 507, 321, 957, 1118, 1234, 303, 773, 1007, 324, 2373, 381, 1179, 867, 1078, 2536, 2811, 1372, 1451, 482, 3825, 308, 3902, 1751, 2561, 2562, 1193, 702, 363, 364, 365, 392, 314, 627, 847, 462, 464, 428, 632, 3955, 811, 1059, 1153, 3408, 3534, 1268]. **Algorithmic** [3439, 4006, 4046, 1763, 572, 1598, 4254]. **algorithmische** [572]. **algorithmischer** [1763]. **Algorithms** [4228, 900, 902, 3926, 820, 1805, 2258, 1276, 2164, 721, 4125, 3193, 954, 1621, 507, 1117, 957, 1118, 1119, 1120, 3326, 1039, 773, 774, 1007, 1944, 3042, 4264, 1178, 2627, 2722, 1179, 867, 648, 692, 1078, 1844, 1849, 2967, 2386, 2547, 2204, 1377, 2206, 1976, 2819, 489, 1193, 4044, 2223, 1315, 2234, 2237, 1786, 847, 2502, 4280, 4217, 4158, 811, 1059, 1153, 1268, 1690, 898, 3801, 2600, 1700, 3098, 2162, 1226, 2951, 2187, 2285, 4263, 1175, 3689, 2192, 1740, 1375, 1848, 1548, 1549, 4101, 2646, 1755, 3775, 1766, 3717, 3067, 3832, 1313, 1881, 2493, 4107].

algorithms [3837, 2010, 2011, 4264]. **Alias** [2235, 2999, 1410, 1009, 925]. **alignments** [1903]. **All-Digital** [3381, 3509]. **All-Optical** [3709]. **alla** [472]. **Alleged** [2616]. **Alley** [2007, 1890, 2015]. **Allocation** [648, 692, 734, 2700, 3459]. **Almost** [3029, 3692, 1493, 4064]. **Along** [3981]. **Alternating** [1365, 3140]. **Alternative** [3577, 828, 1955, 2646, 2834]. **Alternatives** [2485, 1235, 164, 50]. **Alto** [4342, 4256]. **always** [3783]. **AMD** [3998]. **Amer** [1279, 1044]. **America** [3735]. **American** [4144, 4212, 4139]. **Amiel** [319]. **Among** [2453, 1544, 285, 849, 1917, 2096, 2097, 2481, 2513]. **Amplification** [2654, 2829]. **Amplified** [3526, 3678]. **amplifier** [3540, 3541]. **Amsterdam** [4185, 4347]. **Anal** [940]. **analiz** [352]. **Analog** [355]. **Analog-Digital** [355]. **Analogue** [197, 1131, 555]. **analyse** [4153]. **Analyses** [1830, 3087]. **Analysis** [1689, 3164, 4303, 4147, 3167, 3926, 3169, 2344, 4111, 2156, 950, 951, 996, 3999, 761, 3563, 997, 1218, 3889, 1920, 405, 4139, 1622, 1165, 2061, 3112, 1121, 1524, 2616, 3331, 2619, 3040, 2624, 3207, 3690, 779, 2882, 963, 1963, 3822, 966, 924, 2547, 2206, 4040, 971, 3901, 2388, 4332, 789, 449, 972, 3465, 3241, 875, 1989, 1476, 4084, 3364, 1575, 3870, 840, 1994, 4059, 4215, 844, 55, 57, 979, 3504, 495, 2008, 2999, 4145, 1486, 1794, 291, 265, 3290, 3404, 3527, 755, 1209, 4153, 1690, 1029, 2442, 2521, 3100, 403, 2168, 4071, 1814, 3752, 3440, 2179, 1170]. **analysis** [1231, 1232, 1354, 2369, 2066, 1635, 3590, 2292, 2375, 1370, 3213, 1243, 2200, 3601, 2546, 1852, 1045, 1645, 2548, 3053, 3057, 2976, 3609, 4082, 790, 1755, 2818, 2981, 3469, 2745, 1018, 1089, 3475, 3366, 1767, 1254, 1310, 2657, 3914, 3372, 1996, 667, 461, 2123, 748, 264, 2128, 2677, 2683, 3086, 3151, 209, 1594, 2428, 2429, 3397, 3645, 20, 236]. **Analytic** [2049, 3599, 1092]. **Analytical** [2614, 357, 4343]. **analyze** [4068, 4007]. **Analyzing** [2257, 2281, 1376, 2204]. **anaylsis** [501, 620]. **Andersen** [238]. **Anderson** [1047, 2557]. **Android** [3753]. **Angeles** [4137, 4187, 91]. **angenäherten** [278]. **Angle** [519, 627]. **animals** [1908]. **Ann** [697, 698]. **Annealing** [3821, 3079]. **Annual** [4281, 4286, 4291, 4301, 4306, 4342, 4320, 4208, 4169, 4204, 4214, 4237, 4246, 4250, 4271, 4326, 4341, 4178, 4304, 4280, 4267, 4219, 4160, 4228, 4174, 4179, 4184, 4190, 4195, 4200, 4211, 4229, 4234, 4243, 4261, 4268, 4230, 4270, 4166, 4172, 4187, 4192, 4198]. **Anosov** [3916]. **ANSI** [2967, 2640, 2738, 3056, 3128, 3770]. **Anthanasios** [390]. **Antithetic** [727, 734, 2089, 2448]. **Antonio** [4260]. **Antony** [4269]. **ANTS** [4254]. **ANTS-III** [4254]. **any** [350, 2467, 76, 619]. **Aperiodic** [3887, 2803, 3763, 3262, 1607]. **APG** [1878]. **apparent** [841]. **Appearing** [1552]. **Appears** [1360]. **Appendix** [2967]. **Appl** [2322, 3736]. **Apple** [1155, 1271]. **Applesoft** [1359]. **applicability** [1163]. **Application** [3537, 854, 3169, 4175, 909, 2868, 4185, 304, 2799, 2722, 3212, 4308, 1637, 2304, 2549, 2388, 44, 3245, 3781, 2487, 3726, 3083, 890, 290, 3275, 3394, 2027, 2336, 4033, 3303, 2942, 2039, 3566, 2872, 4324, 3450, 2806, 3597, 3598, 3461, 1133, 3711, 2113, 1200, 2916, 708, 981, 748, 1261, 2498, 137, 3279, 1602, 3291, 4091, 2779, 7, 4092]. **Application-based** [1637, 3711]. **Application-Specific** [4308]. **Applications**

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826, 2531, 2717, 2954, 1359, 1440, 1529, 2462, 2619, 4009, 2956, 3445, 200, 243, 688, 1443, 3205, 3447, 3448, 3336, 510, 3040, 1296, 2467, 3338, 2881, 3690, 355, 4099, 1368, 3593, 1128]. **Generator** [3595, 3692, 3210, 3045, 1841, 4116, 2810, 1637, 3856, 2469, 3347, 1845, 3218, 1545, 1640, 3222, 3822, 2967, 2968, 3602, 1014, 333, 483, 1301, 3700, 4058, 3701, 3052, 651, 1751, 1752, 3236, 3904, 2979, 3468, 1559, 522, 523, 656, 2558, 1088, 2093, 2217, 1473, 1193, 2405, 2221, 1868, 3715, 3621, 4084, 3364, 1878, 3477, 3478, 2985, 3253, 3479, 3948, 4105, 932, 2412, 3140, 3141, 745, 421, 1999, 3724, 843, 936, 1054, 229, 1583, 4062, 3502, 3264, 3729, 3377, 1203, 532, 533, 749, 939, 1587, 1588, 2420, 1589, 2126, 2675, 3083, 989, 2500, 3381, 3509, 892, 3085, 2131, 2921, 3639]. **Generator** [3150, 3272, 3273, 3387, 1486, 3275, 3388, 3880, 3278, 3519, 3391, 3392, 1596, 3393, 3395, 2136, 1683, 3400, 3402, 3650, 430, 1059, 1153, 1325, 1800, 3526, 3290, 3404, 3405, 3529, 3293, 3406, 3295, 3531, 3409, 1268, 3410, 3437, 2780, 3411, 2591, 1413, 817, 3413, 1608, 3995, 3296, 3162, 1691, 3165, 818, 3540, 3541, 2033, 2034, 2342, 2933, 1497, 4033, 2256, 3800, 4111, 4034, 1062, 3419, 1500, 468, 3553, 2938, 3749, 1699, 3174, 2939, 3846, 3302, 3423, 3178, 3179, 3303, 3304, 3558, 3559, 1423, 679, 1109, 3100, 3181, 636, 3305, 3848, 3306, 1615, 1915, 3429, 1426, 548, 3307, 3566]. **generator** [1281, 320, 3190, 681, 682, 1712, 2870, 3192, 2047, 3569, 1427, 2524, 3570, 1814, 3436, 998, 2705, 3751, 473, 3573, 4072, 4073, 554, 3322, 1116, 4096, 3440, 3200, 3110, 915, 1517, 1632, 1729, 1229, 1289, 1353, 765, 3578, 2953, 3813, 477, 726, 3580, 1523, 2615, 3814, 1292, 2876, 1356, 2368, 3755, 2618, 3937, 2719, 2465, 1174, 380, 413, 3446, 1533, 776, 778, 3334, 3335, 1364, 2068, 2190, 3114, 3688, 4078, 3337, 2070, 2071, 3938, 3590, 3342, 3594, 1949, 2380, 1952, 2965, 1956, 2536, 3120, 3211, 3346, 3764, 1242, 1636, 224, 383, 2299, 1243, 2468, 154]. **generator** [2381, 1958, 2196, 2515, 2542, 3600, 2811, 1299, 1129, 3458, 3348, 1455, 3940, 2201, 2202, 2303, 3219, 3220, 3349, 3223, 2546, 4016, 332, 1013, 1460, 1643, 2969, 602, 603, 248, 786, 1132, 1379, 3460, 2310, 3350, 3461, 1017, 3228, 3351, 3352, 787, 2085, 2894, 2895, 2974, 3057, 3058, 2554, 1557, 486, 2645, 2815, 3608, 3609, 2980, 1858, 2896, 3466, 3611, 3614, 3905, 2212, 2741, 1978, 604, 1649, 654, 3615, 3775, 3360, 1561, 1562, 2316, 2743, 3471, 2901, 3618, 1985, 3829, 2403, 4121, 3619, 797, 457, 835, 2753, 798, 1089, 3474, 928, 837, 3475, 838, 3365, 3476, 1019, 1258, 3480, 664, 3257]. **generator** [3784, 3138, 2230, 3372, 1478, 162, 494, 528, 3489, 975, 1667, 3258, 3984, 2414, 2573, 2114, 1313, 805, 622, 2574, 2000, 3492, 624, 368, 3626, 1669, 3076, 2917, 2918, 3078, 1671, 3728, 708, 3878, 3917, 3079, 712, 1785, 2419, 3504, 495, 3629, 3630, 1675, 2125, 2239, 2240, 2673, 2997, 4087, 1885, 3506, 848, 1886, 289, 2998, 2498, 2676, 2846, 2583, 208, 2848, 3148, 3000, 4046, 3638, 2768, 1793, 2769, 2770, 2771, 2850, 3001, 3002, 3386, 3513, 3514, 3274, 3515, 3516, 1206, 2426, 3390, 1796, 4065, 2509, 3155, 3394, 3520, 3733, 3283, 3284, 3524, 3645, 3646, 1600, 3089, 3286]. **generator** [3403, 3288, 1801, 3652, 3291, 3530, 3092, 3292, 3993, 2778, 2931, 3654, 3533, 3011, 4092, 3795, 1269, 1607, 2339, 3012, 1901, 3572, 3681, 4118, 2022, 1227, 462, 464, 3281, 3398]. **Generatoren** [1061, 1063]. **Generators** [1408, 2593, 2340, 2858, 293, 4093, 2146, 2252,

3015, 3414, 1494, 3741, 3925, 3299, 3169, 2695, 2344, 3171, 2783, 3019, 582, 2156, 3418, 4133, 3550, 1613, 2260, 3666, 2160, 907, 3964, 4050, 1422, 3426, 3804, 2867, 3022, 3180, 2164, 910, 911, 3182, 1218, 2445, 913, 3433, 2447, 1221, 1283, 1341, 3191, 2944, 405, 2608, 1714, 3316, 1511, 1927, 1346, 1717, 1928, 2269, 3195, 3197, 3679, 3680, 3970, 4051, 4126, 2706, 725, 3683, 1349, 2053, 2176, 2177, 4115, 1432, 1350, 1627, 3201, 2063, 3577, 4053, 2712, 3033, 3686, 768, 825, 1004, 1038, 1121, 1524, 3851, 1234, 727, 1124, 1829]. **Generators** [1528, 3037, 304, 773, 774, 1832, 2799, 2800, 2957, 3687, 3757, 4098, 1365, 3760, 2069, 2072, 2191, 3115, 3208, 3974, 3116, 2294, 2627, 2078, 2962, 867, 3453, 4080, 279, 327, 4037, 4038, 2731, 2384, 2203, 3768, 2632, 562, 2633, 1553, 1248, 1383, 1384, 1749, 2209, 2308, 2312, 2389, 2395, 2474, 2475, 2476, 2549, 2550, 2551, 2640, 2737, 2738, 3056, 3126, 3128, 3353, 3606, 3826, 4040, 4134, 3901, 1748, 3357, 3234, 2739, 2977, 2978, 3237, 3707, 3467, 2396, 4120, 1648, 2485, 3774, 359, 3908, 3909, 1190, 1192, 1862, 1864, 2821, 2747, 3245, 1655, 2751, 4104, 3778, 1476, 1564, 1566]. **Generators** [1764, 1305, 2223, 2654, 2829, 1871, 2661, 2759, 3719, 741, 876, 614, 659, 799, 800, 3718, 1876, 3870, 3486, 1398, 3140, 1995, 1093, 1782, 3874, 3915, 422, 1482, 2840, 3496, 3497, 3498, 3499, 2121, 3261, 807, 2669, 3500, 3263, 1672, 3501, 2122, 3378, 4122, 1101, 2495, 2671, 2843, 3081, 2241, 573, 2503, 2505, 538, 2679, 2680, 2424, 2923, 1406, 1592, 1794, 2020, 1148, 3517, 576, 2853, 3156, 1679, 1680, 2247, 1894, 2856, 3920, 810, 1324, 2140, 2514, 2690, 430, 1684, 431, 497, 3794, 853, 1688, 2437, 1061, 1155, 1210, 1326, 1328, 1492, 3739, 2692, 1902, 2516, 3163]. **generators** [3164, 3923, 1272, 1414, 1332, 3842, 501, 3740, 2149, 3660, 2151, 1694, 3166, 1696, 2343, 3546, 3743, 3887, 2346, 3661, 3746, 1063, 3095, 3662, 3802, 3417, 3300, 2600, 2036, 3888, 3173, 1700, 1158, 1064, 1420, 2940, 3424, 3965, 1065, 2941, 1215, 2038, 1704, 2698, 2786, 3023, 3099, 2443, 912, 1506, 1707, 2942, 1217, 723, 3186, 3806, 1919, 3189, 4001, 3750, 3568, 1920, 2169, 2264, 549, 2265, 1924, 2046, 2170, 2266, 1032, 1925, 3315, 2357, 1345, 1512, 1513, 3317, 1429, 1509, 1510, 3571, 1619, 1718, 2790, 2948, 3196, 3318, 3933, 1347, 1430, 637, 2949, 3752, 3320, 3321, 1623, 4005]. **generators** [408, 1431, 2793, 2272, 2273, 2528, 1516, 3324, 1433, 1434, 1519, 1726, 1352, 2951, 1939, 1940, 2062, 2183, 2184, 2282, 2364, 2365, 2455, 2609, 2610, 1733, 1169, 1827, 861, 958, 959, 1231, 1232, 1354, 1828, 2065, 3936, 442, 1040, 275, 2369, 864, 1006, 2955, 3113, 3937, 1361, 3815, 2958, 3586, 2801, 1737, 1833, 775, 479, 1239, 1295, 1363, 2621, 2721, 2803, 2804, 3206, 3759, 3450, 1534, 3451, 1444, 1835, 1836, 1945, 690, 4012, 4079, 3340, 3591, 3592, 3817, 1946, 2075, 2295, 2296, 2377, 2626, 3939, 1445, 2298, 3763, 780, 4054, 869, 3452]. **generators** [3345, 1446, 1957, 3597, 1181, 3766, 1740, 2539, 2540, 3046, 1540, 357, 384, 2197, 2966, 1847, 2200, 2301, 2302, 2382, 2383, 3601, 1011, 3221, 1457, 2887, 923, 1742, 3227, 4018, 2472, 3603, 1746, 2970, 3051, 3124, 831, 1381, 1382, 1465, 1647, 1855, 2205, 2207, 2208, 2210, 2307, 2309, 2390, 2392, 2393, 2477, 2478, 2636, 2638, 2734, 2813, 2889, 2972, 3125, 3127, 3464, 3770, 1554, 3942, 1133, 2971, 3231, 3355, 2313, 1750, 3232, 1189, 1303, 3358, 873, 2648, 3977, 3465, 3130, 4042, 3240, 1251, 2214, 2741, 1981, 2090, 3708, 3361,

3710, 450, 451, 488, 524, 1651, 1758, 1982, 1984, 2822]. **generators** [2745, 3242, 4022, 2401, 2652, 2902, 2903, 3711, 3777, 1760, 1988, 2402, 2404, 2824, 3062, 3131, 1761, 1867, 795, 3247, 3133, 3473, 2827, 2908, 1763, 1658, 458, 3980, 3780, 3363, 2101, 3868, 1766, 613, 3137, 3367, 2224, 660, 1139, 1310, 1573, 2569, 2657, 2758, 1574, 1773, 1774, 3256, 2910, 3481, 3482, 620, 2572, 2912, 2989, 3071, 3485, 1666, 1141, 1312, 1399, 1479, 1776, 1777, 2113, 1400, 2116, 3490, 3072, 1143, 2119, 844, 2415, 3985, 1098, 1580, 883, 1099, 3916, 3879, 2326, 2124, 1586, 1884, 1404, 1485, 1787, 2920, 3789, 2672, 2765, 1788, 2497, 3507]. **generators** [4108, 3953, 263, 2242, 2010, 1789, 3635, 2847, 2506, 3839, 4064, 4088, 1318, 3637, 2677, 2678, 2507, 3383, 2922, 2333, 2683, 2851, 3003, 3086, 3087, 3151, 3512, 3641, 3642, 1676, 1892, 2019, 3152, 3277, 3792, 3840, 3518, 3005, 2684, 2510, 2685, 1678, 992, 2854, 4066, 2774, 2855, 3522, 1104, 2135, 1105, 3957, 4047, 2248, 1895, 3647, 1799, 2689, 2025, 2141, 2250, 2026, 465, 3525, 2338, 3091, 3528, 3921, 2779, 3407, 3408, 3883, 3535, 3536, 2351, 3230, 3356, 401, 517, 485]. **generators-part** [2677]. **Generazione** [995, 493]. **Genetic** [2600, 2627, 2722, 2723, 648, 692, 3052, 2819, 4280, 2923, 3008, 2162, 2943, 2745, 3717, 4293]. **Gentle** [3080, 2520, 2905]. **Genuine** [3729, 2928]. **Geographic** [2351]. **Geometric** [3661, 771, 1963, 2223, 2854, 2816, 1766, 2686]. **Geometrical** [3396, 2088]. **Geometrically** [2885, 2802, 2818]. **Geometry** [2408, 2409, 1070, 3320, 4007, 1967]. **geophysics** [1598]. **George** [4314, 262]. **Georgia** [4261, 4248, 4176]. **Germain** [2902]. **German** [1061, 635, 3013, 1063, 441, 474, 2174, 1515, 2715, 1040, 2461, 1239, 1363, 643, 644, 221, 246, 278, 1010, 331, 11, 33, 1763, 743, 670, 626, 534, 535, 572, 5, 1900, 896, 176]. **Germany** [4324]. **Getting** [3395, 2513]. **GFSR** [2070, 1413, 1437, 2071, 1760, 1988, 2407, 1319, 1320, 1406, 1891, 2018]. **GI** [1973]. **GI/G/1** [1973]. **Gibbs** [1811, 2050, 2067, 742]. **gigahertz** [1497]. **Gill** [509]. **Giovanni** [3771]. **Gitterstruktur** [1061]. **Given** [1111, 1223, 1621, 1541, 1, 3844, 151, 1000, 260, 2330, 1681]. **giving** [141]. **Gjrand** [3424]. **Glasgow** [4245]. **gleichverteilte** [1063]. **gleichverteilten** [635]. **gleichverteilter** [1239, 1363]. **Gleichverteilung** [5, 246]. **Gleitkommadarstellung** [670]. **glimpse** [783]. **Global** [3161, 737, 2226, 1370, 2227]. **GLP** [2709]. **Gmunden** [4223]. **GMW** [1145]. **GNU** [3328]. **Gnumeric** [2906]. **go** [4028]. **goddess** [2557]. **goddess-of-fit** [2557]. **goes** [3138, 3495]. **Goldreich** [4096]. **Good** [2340, 1732, 510, 1837, 2294, 2377, 2627, 3047, 3456, 2733, 2390, 2475, 2639, 2832, 1398, 745, 936, 1054, 3146, 3147, 3269, 2923, 1799, 399, 466, 1915, 2953, 1733, 1833, 3044, 1636, 2301, 694, 732, 2970, 1381, 1855, 2477, 1017, 2893, 611, 877, 2663, 3832, 2116, 3495, 1884, 4088, 3641, 3642, 3007, 3090]. **Goodness** [4181, 599, 2982, 842, 69, 88, 102, 3186, 1172, 1076, 1184, 98, 628, 19]. **Goodness-of-Fit** [2982, 842, 4181, 3186, 1172, 1076, 1184, 628]. **Gossip** [3853]. **Gowers** [3610]. **Gozd** [4247]. **GP** [4280, 3722]. **GP-2001** [4280]. **GP-GPU** [3722]. **GPGPU** [3728]. **GPU** [3842, 3547, 3745, 3801, 3755, 3445,

3852, 4330, 4340, 4016, 3708, 4310, 3488, 3722, 3623, 3534]. **GPU-based** [4016]. **GPU-enabled** [3488]. **GPUs** [3801, 3565, 3858, 3944, 3985]. **Gradient** [3343, 1556]. **Graduate** [4266]. **Grain** [3118]. **Grand** [4258]. **Grande** [2447]. **Granular** [4025]. **Graph** [3032, 520, 1917, 2951, 2064, 2875, 1960, 2016]. **Graphic** [3503, 3787, 3419]. **Graphical** [1484, 1674, 1792]. **Graphics** [3571, 3488, 3417, 3748, 3228, 3716, 1480, 1668, 3535, 3655]. **Graphs** [4053, 1905, 2193]. **gray** [1723]. **gray-scale** [1723]. **Greater** [902, 2235, 472]. **Greatest** [514, 1300, 1130, 1096, 755]. **Greece** [4305]. **Greedy** [3510]. **Green** [1316]. **grenades** [2385]. **Grenoble** [4159]. **gretl** [3737]. **Grid** [1224, 2898, 3294]. **GRNG** [3880]. **Group** [1997, 783, 3603, 3144]. **Group-Valued** [1997]. **Grouped** [842, 42]. **grouping** [50]. **Groups** [1921, 2717, 2641, 2036, 1535, 3710]. **growth** [3481]. **Guangdong** [4331]. **guarantee** [1291]. **guaranteed** [3840]. **Guarantees** [1736, 2029]. **Guest** [2356, 3157]. **Guide** [3659, 1067, 1277, 2640, 2738, 2656, 1024, 2207, 3128, 2655]. **Guideline** [4056]. **Guidelines** [1736, 1585]. **Guitar** [2789].

H [294, 994, 898, 170, 3588, 561, 249, 3239, 1887]. **H2PEC** [1372]. **Haar** [1948, 2074]. **Håstad** [3989]. **Hadamard** [3793, 3880]. **Halcomb** [170]. **Halftoning** [3575]. **halls** [3072]. **Halton** [3325, 3369, 3265]. **Hamburg** [4148]. **Hamiltonian** [3021]. **Hammersley** [914]. **Hamming** [1610, 4069, 2243]. **Hamming-Weight** [4069]. **hand** [2385]. **Handbook** [4253, 3929, 4315, 4287, 4339, 2746, 2317, 1090, 292, 1003]. **Handel** [2745]. **Handel-C** [2745]. **Hard** [2593, 3924, 641, 1398, 4090, 1331, 1415, 1774, 3374, 3396]. **Hard-coded** [3924]. **hard/soft** [3374]. **hardcore** [3802]. **Hardness** [4074, 2833, 4029]. **hardnesses** [2774, 2855]. **Hardware** [1413, 3747, 3846, 3847, 2350, 3803, 3304, 3967, 3101, 4316, 2792, 3108, 3324, 3326, 3688, 4099, 2633, 3230, 3907, 4044, 1663, 2230, 3502, 3388, 3276, 4135, 4031, 3437, 2591, 1062, 3181, 2615, 3334, 3205, 3940, 3349, 4276, 2969, 2894, 2974, 3057, 3058, 3706, 3772, 2980, 3976, 3615, 3616, 2745, 457, 1577, 3837, 3011, 3681, 3356]. **Hardware-based** [3388, 2894]. **Hardware-optimized** [3324]. **Harmonic** [849]. **Harvard** [4136, 4156]. **harvesting** [3963]. **hasard** [699, 738]. **Hash** [3670, 3673, 3594, 2405, 3869, 3870, 1672, 3631, 3483, 3259, 3834]. **Hash3** [3636]. **Hashing** [2172, 3750, 2099, 3956]. **HASPRNG** [3356]. **Hastings** [2808]. **HAVEGE** [2844]. **Having** [1856, 454, 961, 255]. **Hawaii** [4263]. **HC** [2930]. **HC-256** [2930]. **Heads** [2862]. **heap** [1916]. **heap-ordered** [1916]. **heat** [2888]. **Heavy** [3397, 3557]. **heavy-tailed** [3557]. **Heavy-traffic** [3397]. **Hecke** [744]. **hedging** [3495]. **Heikes** [924]. **Held** [4137, 4138, 4144, 4139, 4191, 4283, 4213, 4264, 4146, 4140, 4266, 4288, 4155, 4215, 4226, 4158, 4160]. **Helios** [3889]. **Hellman** [2766]. **Helmholtz** [3581]. **help** [2416]. **HEMT** [1497]. **Hermite** [3110, 1178]. **Herstellung** [176]. **Heston** [3777]. **Heterogeneous** [3434, 4076, 2885, 3309, 3374]. **Heuristic**

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non-prime [3069]. **non-random** [189]. **Non-Randomness** [1388, 3877]. **non-recursive** [3950]. **Non-standard** [3985, 1964]. **Non-Stationary** [351, 789, 2634]. **non-successive** [2306]. **Non-Uniform** [1412, 2791, 2739, 3359, 1225, 3043, 1842, 3605, 3088, 3154, 3437, 1718, 3936, 769, 2646, 3788, 1317]. **non-uniformity** [2220]. **nonalgebraic** [2778]. **nonanalytic** [1298]. **Nonce** [3555]. **Noncentral** [828]. **nondeterministic** [2077]. **Nonempirical** [2747]. **Nonidentically** [3425, 608, 1198]. **nonintegral** [857]. **Noninverse** [1585]. **Noninvertible** [1304]. **Nonlinear** [3015, 3962, 2058, 2178, 2278, 3029, 3201, 1039, 826, 3035, 2466, 3904, 1304, 1566, 1868, 3718, 1771, 2488, 2987, 2026, 1684, 2940, 3306, 1513, 1517, 1821, 1824, 1932, 1938, 2275, 1353, 2804, 3206, 2201, 2202, 3219, 3227, 3465, 310, 2826, 3133, 1392, 1393, 2657, 2758, 3255, 3481, 3482, 883, 3632, 3005, 1604, 3884]. **Nonnegative** [3675, 3373, 981, 3644]. **Nonnormal** [1350, 2909]. **Nonnormality** [400, 1127, 369]. **Nonoverlapping** [2055, 2057, 1823, 2238]. **Nonparametric** [676, 557, 1171, 1735, 2798, 3583, 3697, 3698, 292]. **nonprobabilistic** [1638]. **nonrandom** [629]. **Nonrandomness** [3510, 1374]. **Nonrecursive** [551, 3293, 2778]. **Nonsingular** [4030]. **nonskewed** [1262]. **nonsuccessive** [2770]. **Nonuniform** [1689, 997, 3103, 3026, 1227, 2884, 2937, 2938, 3025, 2874, 784, 2815, 1883, 2013, 3681]. **nonuniformly** [635]. **NOR** [4023]. **Norfolk** [4226]. **Nörlund** [60]. **Norm** [3610]. **Normal** [1327, 580, 1026, 581, 757, 2695, 3743, 582, 820, 3664, 584, 907, 3425, 1912, 762, 1285, 440, 859, 323, 645, 2724, 25, 600, 1371, 330, 518, 3899, 781, 1550, 1462, 1551, 333, 3050, 1751, 1752, 254, 280, 281, 336, 360, 452, 793, 1652, 2653, 187, 204, 3981, 419, 701, 702, 840, 3872, 148, 393, 2667, 1582, 4062, 287, 847, 892, 751, 2331, 8, 168, 1057, 2927, 810, 3289, 2590, 634, 1330, 1410, 995, 3097, 3749, 182, 2698, 1216, 240, 15, 548, 58, 1342, 998, 4075, 555, 1166, 2185, 2458, 2459, 2613, 141, 595, 596, 772, 1127, 1077]. **normal** [1536, 1244, 1134, 158, 18, 417, 283, 337, 340, 1983, 1018, 160, 491, 797, 40, 930, 931, 1400, 364, 2666, 2002, 978, 3077, 884, 230, 135, 191, 848, 289, 164, 4089, 2248, 70, 3738, 3894, 3013, 437, 303, 482, 365]. **Normale** [3013]. **Normali** [995]. **Normalisation** [3537, 3656]. **Normality** [518, 751]. **Normalizing** [895]. **Normally** [400, 638, 323, 369, 43, 1515, 3910, 2653]. **normally-distributed** [1515]. **normalverteilter** [1515]. **NORTA** [2603]. **North** [4198, 4219]. **Norway** [4300]. **Note** [127, 2867, 270, 58, 591, 592, 379, 727, 1292, 224, 1180, 924, 448, 2979, 1192, 86, 418, 205, 391, 460, 424, 3395, 2776, 1686, 407, 898, 2256, 3800, 1064, 236, 182, 1034, 1929, 1530, 2295, 2296, 1954, 3130, 1259, 2434]. **Notebook** [2159]. **Notes** [400, 584, 239, 298, 958, 323, 410, 243, 518, 2546, 3771, 250, 389, 366, 369, 945, 407, 150]. **notion** [1247, 652, 1056]. **Novel** [3539, 2527, 4098, 3400, 3553, 3178, 3304, 4072, 3334, 3335, 3938, 2965, 3611, 3474, 3533, 3795]. **Novelty** [4128]. **November** [4207, 4283, 4263, 4166, 4169, 4198, 4205, 4231, 4271, 4332, 4295, 4288, 4173]. **ns** [3395]. **ns-2** [3395]. **NSWC** [1567, 1870, 1488]. **NTL** [4063]. **Nuclear** [3816, 3580, 1598, 4144]. **Num** [221]. **Number**

[3656, 1408, 1412, 2340, 2438, 293, 4093, 2146, 2252, 3015, 1494, 1212, 1906, 3799, 854, 3299, 401, 3169, 3170, 2152, 2344, 2345, 3171, 2783, 3019, 2156, 3418, 3419, 4133, 3550, 3551, 3663, 759, 2258, 2260, 2160, 1502, 1419, 3847, 2350, 3556, 3964, 4050, 1214, 2520, 1422, 3560, 2351, 2352, 2867, 3022, 3180, 909, 2164, 910, 911, 3561, 2165, 504, 1913, 823, 1507, 3565, 3430, 4094, 2040, 2445, 3308, 3432, 4070, 4112, 3676, 2446, 1282, 1162, 1616, 2355, 2447, 3312, 1221, 1283, 1341, 3191, 405, 550, 2789, 1511, 1927, 2871, 2947, 1717, 1928, 2525, 3197, 3679, 3970, 4051, 4126, 2706]. **Number** [2792, 2173, 3106, 3107, 3108, 3198, 3323, 3575, 1071, 1348, 2052, 2707, 3683, 1349, 2053, 2176, 2177, 4115, 1432, 1350, 1625, 1627, 2058, 3201, 3812, 2063, 2452, 2453, 2795, 3577, 3579, 4076, 1167, 3204, 2712, 3033, 3686, 768, 1038, 1121, 1524, 3851, 1526, 826, 1829, 865, 1528, 2371, 2797, 3037, 1359, 1440, 1529, 4009, 3445, 2800, 200, 243, 1443, 3205, 3447, 3448, 4098, 510, 2623, 3040, 1296, 3338, 3690, 4099, 3115, 3208, 1368, 3116, 2294, 2297, 1739, 2078, 245, 1128, 3595, 3692, 3210, 3045, 1841, 3453, 3212, 2628, 4080, 279, 327, 4037, 2810, 1637, 4038]. **Number** [3456, 2469, 3347, 517, 3218, 1545, 1640, 1965, 3222, 3822, 2967, 2384, 2203, 2968, 871, 4056, 2632, 1462, 2304, 333, 483, 2733, 1301, 1646, 1749, 2209, 2308, 2312, 2389, 2395, 2475, 2476, 2549, 2639, 2640, 2737, 2738, 2892, 3054, 3056, 3126, 3128, 3229, 3353, 3606, 3826, 4040, 4134, 3700, 4058, 3701, 3052, 832, 3901, 1748, 651, 3230, 3356, 3357, 4222, 3771, 3234, 1751, 1752, 653, 2739, 3236, 3237, 3707, 3904, 2979, 3773, 1859, 4120, 2485, 3774, 359, 1559, 3907, 874, 3908, 3909, 44, 2215, 1190, 1192, 1862, 1863, 1864, 2091, 2558, 2821, 2093, 2094, 2095, 2217, 2747, 3061, 3245]. **Number** [2219, 2751, 2905, 4104, 658, 1473, 1193, 2405, 1476, 1564, 2221, 1868, 1764, 1305, 3830, 1194, 3135, 1090, 4084, 1871, 2571, 2661, 2759, 3719, 612, 741, 876, 2318, 3478, 659, 799, 800, 3718, 1772, 1876, 2106, 2225, 3948, 1775, 68, 1396, 663, 4105, 932, 3486, 1398, 4059, 1995, 1667, 1199, 1093, 745, 4206, 1782, 1999, 3724, 3874, 3915, 2003, 422, 1482, 843, 3375, 1401, 2840, 936, 1054, 3496, 3497, 3498, 3499, 2121, 229, 3261, 937, 1021, 807, 2669, 3500, 3501, 3502, 3264, 3729, 2995, 2122, 3836, 3377, 3378, 1203, 2495, 2671, 2843, 533, 3266, 939, 4299, 3081]. **Number** [887, 888, 1587, 1588, 1589, 2126, 4063, 3083, 989, 889, 3269, 2241, 1887, 573, 2500, 2503, 2505, 631, 891, 1263, 3381, 3509, 892, 538, 3271, 2131, 3639, 3150, 3954, 3987, 2680, 2682, 2923, 3387, 1406, 1486, 2020, 3275, 3388, 1148, 3153, 3276, 3517, 3880, 3278, 3391, 3392, 576, 2853, 1679, 3393, 3281, 1680, 2247, 3395, 1058, 429, 1894, 2136, 2856, 1151, 1207, 3285, 1683, 3735, 3400, 1324, 2512, 2140, 2514, 2690, 3402, 3650, 430, 1059, 1153, 1325, 3008, 1800, 88, 3526, 3290, 3404, 1605, 3794, 3405, 3529, 3293, 3737, 3406, 3295, 3531, 853, 3409, 4153, 1268, 3410, 2437, 3437]. **number** [2780, 3411, 2591, 1155, 1210, 1328, 1492, 3739, 2692, 1413, 817, 3413, 4110, 1271, 3163, 1332, 1691, 818, 3540, 3541, 3842, 2033, 1905, 501, 2517, 3740, 2149, 2342, 3961, 1694, 1497, 3298, 4033, 2343, 3546, 2256, 3887, 2346, 4111, 4034, 3018, 3548, 3549, 3661, 3745, 3746, 3801, 1062, 1063, 3095, 3662, 350, 3417, 3888, 1500, 468, 677, 3553, 3173, 3748, 3749, 1699, 3174, 1700, 3846, 1504, 3301, 3302, 3423, 1420, 2940, 3424, 3999, 2162, 3178, 3303, 1065, 3558,

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1821, 1822, 1823, 1824, 1825, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 2056, 2057, 2059, 2060, 2179, 2180, 2181, 2275, 2277, 2279, 2358, 2359, 2360, 1351, 1353, 2280, 2363, 2708, 1940, 2062, 2183, 2184, 2282, 2364, 591, 592, 322, 3813, 1828, 2530, 1292, 1236, 1293, 1357, 2368, 2369, 864, 3937]. **pseudorandom** [1361, 3815, 2958, 558, 380, 2877, 776, 185, 644, 4011, 2803, 2534, 2804, 3206, 3759, 3852, 3451, 4079, 3340, 3591, 3592, 3817, 2073, 2075, 2292, 2295, 2296, 2375, 481, 2626, 2298, 869, 1446, 1957, 383, 2540, 3046, 416, 829, 1540, 1958, 2196, 357, 2197, 1299, 2966, 1847, 1375, 2201, 2202, 2546, 1457, 4017, 1247, 3227, 1460, 2472, 4100, 602, 603, 1379, 2971, 2085, 3355, 2313, 2211, 1189, 1303, 2644, 1557, 486, 873, 3609, 3975, 3239, 3828, 3905, 4021, 4042, 3240, 1386, 1469, 1756, 2090, 1865, 1985, 1986, 2480, 2561, 2562, 2402, 2404, 2824, 3062, 3131, 1867, 3910]. **pseudorandom** [2826, 3133, 4043, 4121, 1565, 3716, 3366, 1019, 3912, 2224, 660, 880, 1050, 1139, 1257, 1258, 1310, 1392, 1393, 1395, 1477, 1571, 1573, 1770, 1771, 1874, 1990, 2105, 2567, 2568, 2569, 2657, 2658, 2659, 2758, 2988, 3254, 1774, 3481, 3482, 3484, 620, 3784, 3950, 3871, 1666, 528, 2113, 841, 975, 461, 2000, 1143, 1669, 1484, 1098, 1580, 1053, 883, 4107, 3728, 2577, 3144, 710, 2419, 3504, 2238, 2997, 1405, 3507, 3632, 4108, 2998, 628, 990, 3839, 4064, 4088, 4046, 1792, 3385, 1320, 2019, 3005, 1796, 2685, 943, 3733, 3282]. **pseudorandom** [3283, 3524, 2135, 496, 4047, 715, 2248, 1602, 2025, 2141, 2142, 2250, 2431, 2513, 2026, 3009, 3159, 2778, 233, 814, 4092, 1607, 2030, 3572, 3399]. **pseudorandom-number** [2692]. **Pseudorandomness** [3014, 2254, 3427, 3672, 4074, 728, 2718, 2464, 2533, 3973, 3696, 4014, 2541, 2629, 2726, 2631, 2641, 2213, 3469, 2566, 1660, 2687, 4029, 2596, 2157, 2463, 4130, 3979, 3157, 2776, 2148]. **pseudozufallsvektoren** [1363]. **Pseudozufallszahlen** [2174]. **Pseudozufallszahlenfolgen** [626]. **psevdosluchainykh** [352]. **PSI** [1439]. **PSO** [4117]. **PSW** [3756]. **PUB** [1878]. **Public** [2350, 919, 2538, 1992, 2575, 882, 3343, 2472, 3945]. **Public-Key** [919, 2538, 2575]. **Publications** [262, 395]. **Publicly** [3891, 3192]. **Published** [3771]. **PUF** [4095, 4106, 4086, 3954, 3987]. **PUF-TRNG** [4106]. **PUFs** [4027]. **Pulse** [3579, 1845, 681, 3580]. **Pulse-Excited** [3579]. **Pulse/Data** [1845]. **Pulses** [522, 523, 3403]. **punched** [36]. **punctured** [3868]. **Pure** [3947]. **Purpose** [1092]. **Purposes** [4048, 2978]. **PVT** [3509]. **PVT-variation** [3509]. **pW** [3436]. **pyramids** [1474]. **Python** [3824, 3706, 2399, 2400, 4345].

Q.R.N.G. [3543]. **QRNG** [4123, 4113]. **Qs** [3691]. **QTPM** [4132]. **Quadratic** [2055, 2059, 2279, 663, 2110, 1665, 847, 1216, 1629, 1730, 1934, 2056, 2360, 1290, 2280, 1077, 1134, 978]. **Quadrature** [922, 791, 737, 1049, 397, 2535]. **Quality** [2159, 3568, 4115, 1842, 4038, 2727, 3856, 2093, 1101, 3153, 3278, 3008, 3923, 3300, 3419, 1925, 2610, 4012, 1954, 1958, 2196, 4018, 3228, 3351, 1978, 3615, 1985, 611, 2496, 2497, 3385, 2508, 2586, 3009, 3012]. **quanta** [1226]. **Quantendynamik** [11]. **Quantifiers** [3317]. **Quantis** [3732]. **Quantitative**

[3171, 744, 4321, 3829]. **quantity** [227]. **Quantum** [3537, 3538, 3656, 2860, 3542, 3562, 3183, 3812, 3444, 3939, 4037, 1638, 3220, 3460, 3701, 3774, 3709, 3911, 4105, 2003, 3626, 3836, 533, 2676, 3148, 3637, 3156, 3403, 4132, 4067, 4118, 3411, 3657, 3428, 3751, 378, 3200, 3754, 3937, 3452, 3454, 2542, 3600, 3219, 11, 4131, 3714, 3780, 3476, 3493, 4107, 3506, 2846, 2583, 3383, 3640, 3390, 4065, 3394, 3734, 3646, 3089, 3401]. **Quantum-Mechanical** [533]. **Quantum-Safe** [4105]. **Quantumlike** [709]. **quark** [4249]. **'quasi** [2611, 909, 587, 3441, 2455, 116, 4117, 4309, 4317, 2819, 2102, 878, 1772, 4259, 4298, 1481, 2232, 1260, 1587, 1887, 1590, 3838, 2012, 2425, 315, 2927, 1323, 467, 1612, 2259, 908, 4322, 3971, 4283, 1364, 221, 222, 324, 1837, 2374, 4255, 2535, 2299, 2300, 2635, 2736, 3462, 2642, 1565, 3982, 4239, 4266, 4288, 2911, 3788, 1675, 2009, 3523, 1686, 498, 1269, 2892, 3229, 99]. **Quasi-** [1481]. **Quasi-Convergent** [315]. **Quasi-Monte** [4309, 4317, 4259, 4298, 1887, 3441, 2455, 2102, 878, 1772, 2232, 1590, 3838, 2425, 2927, 467, 4322, 4283, 4239, 4266, 4288, 908, 1837, 2535, 2736, 3462, 2642, 3982, 2911, 498, 2892, 3229]. **Quasi-Monte-Carlo** [99]. **Quasi-Random** [909, 4117, 1260, 2012, 1323, 587, 116, 1587, 1612, 2259, 3971, 1364, 221, 222, 324, 2374, 4255, 2300, 2635, 1565, 3788, 1675, 2009, 3523, 1686, 1269]. **quasi-white** [2299]. **quasicrystals** [2721]. **Quasigroup** [3132]. **Quasigroups** [3585]. **Quasirandom** [2594, 1337, 2164, 3564, 1234, 2227, 2914, 1789, 3309, 2811, 1385, 1874, 1877, 1888, 2127, 578]. **Quaternion** [3521]. **quatrième** [4141]. **Quebec** [4229, 4281]. **Query** [452]. **Quest** [1360, 3544]. **questions** [85]. **Queue** [997, 1972, 1973, 1029, 2796, 970, 3397]. **Queueing** [1416, 1254]. **Queuing** [1499, 624, 807]. **Quick** [2053]. **QuickCheck** [3980]. **Quickly** [1943]. **Quicksort** [2526]. **Quinary** [932]. **Quincunx** [3491]. **Quintessential** [3491]. **quintic** [3110]. **quotient** [1252]. **quotients** [3682, 1255]. **QX** [4118].

R [2161, 4049, 3807, 2871, 2947, 3233, 3358]. **R16** [811]. **R18** [774]. **R24** [867]. **R52** [1119]. **R53** [1120]. **R57** [1179]. **R58** [1193]. **Rabbit** [3094, 2785]. **Rabin** [1331, 3756]. **Racah** [427]. **Rackoff** [1867]. **Radial** [349]. **Radiation** [339, 11]. **Radical** [324]. **Radical-inverse** [324]. **radio** [500, 484]. **radioactive** [2928]. **Radisson** [4183]. **Radix** [2197]. **Radix-** [2197]. **RAGE** [3141]. **RAGuard** [4031]. **rake** [3342]. **Raleigh** [4219]. **Ralley** [1090]. **Ramage** [2924]. **Raman** [3562, 3812]. **RAMs** [3337]. **Ramsey** [2427]. **RAN1** [2256, 2342]. **Rand** [1312, 71, 89, 3287, 1378, 1791, 2013]. **RandNLA** [3896]. **Random** [3537, 3538, 3656, 1408, 1689, 3412, 1270, 1329, 499, 816, 1156, 1412, 2340, 1157, 3539, 581, 400, 293, 4093, 2146, 2252, 3797, 1494, 1693, 1212, 103, 108, 109, 110, 111, 123, 124, 125, 126, 897, 994, 2517, 2860, 3542, 3798, 3799, 3741, 3996, 4049, 544, 757, 758, 819, 899, 900, 901, 902, 949, 3166, 3886, 1333, 3926, 2597, 2695, 12, 3170, 2152, 2345, 3171, 2783, 2936, 2599, 3019, 3927, 3928, 295, 267, 350, 2156, 3418, 3419, 4133, 3550, 2862, 3096, 3551, 3663, 759, 1335, 3552, 402, 502, 584, 1501, 437, 2258, 2439, 180, 821, 952].

Random
[1613, 1700, 2159, 2260, 2349, 2441, 2160, 1502, 1158, 907, 1419, 546, 3847, 2350, 3803, 1031, 1107, 1214, 3558, 181, 237, 3425, 1422, 3560, 2351, 2697, 2352, 2786, 2867, 3022, 3180, 909, 319, 1424, 1110, 2868, 3561, 2165, 2166, 1808, 3182, 1506, 3562, 239, 240, 504, 1425, 1912, 2942, 1709, 1710, 2263, 1507, 856, 183, 3672, 762, 404, 763, 3565, 1218, 588, 3430, 4094, 2445, 2603, 3188, 3308, 3432, 3674, 4070, 4112, 2354, 3433, 3567, 3434, 3675, 377, 2604, 3676, 320, 2044, 2446, 1282, 1220, 1616, 2264, 2355, 2447, 3677, 3312, 1283, 3191, 1921, 241, 216, 405, 471].
Random [3103, 550, 2789, 1285, 1343, 2267, 2268, 1714, 2048, 954, 1511, 1927, 1222, 1509, 2050, 2871, 2947, 1346, 1717, 1928, 2525, 3197, 3679, 3850, 3970, 4051, 4126, 3435, 1113, 1223, 1224, 1430, 1621, 1622, 1721, 1815, 2171, 2271, 2791, 3026, 3319, 3809, 4052, 4114, 1286, 2792, 553, 638, 30, 2172, 271, 2173, 2949, 4073, 3106, 3107, 3108, 3198, 3323, 3575, 725, 1071, 1164, 1348, 2052, 2707, 1624, 2450, 1349, 2053, 2176, 2177, 1516, 1227, 1432, 1350, 1724, 2451, 2361, 3812, 2452, 2453, 2795, 3577, 3579, 4076, 3203, 1521, 2367, 3030, 4053, 1167, 1118, 1119, 1120, 2711]. **Random**
[3031, 3204, 3032, 2712, 298, 3686, 1038, 1121, 1524, 1436, 379, 3581, 3851, 2617, 442, 4008, 300, 351, 727, 556, 1124, 862, 1526, 508, 1438, 1527, 3443, 3444, 49, 1941, 1125, 275, 1829, 2716, 598, 323, 410, 866, 2954, 1528, 2371, 2797, 3332, 303, 828, 1358, 3037, 4097, 3584, 771, 1736, 773, 774, 1173, 1238, 1532, 4009, 3445, 2800, 642, 687, 4010, 4035, 4077, 2289, 200, 243, 244, 144, 688, 447, 3587, 3758, 1126, 1443, 3205, 3447, 3448, 3336, 645, 414, 510, 2372, 2623, 3040, 1296, 3338, 65, 66, 74, 3690, 325, 354, 355, 3761, 559, 689, 3041].
Random
[381, 3115, 3208, 3854, 1368, 3593, 599, 918, 779, 2294, 4255, 2297, 1739, 2625, 1445, 2078, 245, 1839, 1950, 1951, 3595, 3855, 3763, 867, 4054, 2380, 3344, 3210, 3045, 3452, 1841, 1842, 1955, 2884, 3695, 3453, 3212, 3821, 4080, 279, 327, 4037, 600, 202, 1080, 2810, 154, 1539, 1637, 1371, 356, 4038, 2727, 329, 330, 384, 2728, 2729, 2885, 3856, 155, 2198, 2730, 3456, 2469, 118, 2545, 1083, 1373, 3697, 3698, 518, 4117, 1545, 1640, 2382, 1965, 3222, 3822, 1084, 2967, 1456, 1546, 870, 1547, 1641, 2203, 2968, 1850, 3768, 3224, 2632, 781, 830, 872, 1550, 734, 924].
Random [1376, 1743, 3602, 2470, 225, 519, 649, 1745, 1462, 1551, 3824, 2304, 1552, 562, 650, 1014, 1131, 483, 3050, 1248, 1301, 1555, 1646, 1749, 2209, 2308, 2312, 2389, 2391, 2392, 2393, 2395, 2475, 2476, 2549, 2637, 2638, 2639, 2640, 2737, 2738, 2891, 2892, 3054, 3056, 3126, 3128, 3229, 3353, 3605, 3606, 3702, 3826, 3858, 3944, 4040, 4058, 3701, 832, 1017, 3825, 3901, 3352, 1854, 1085, 1748, 651, 926, 1856, 3230, 3356, 2087, 1187, 3232, 4019, 3234, 1751, 1752, 2739, 3359, 2647, 3236, 3237, 3707, 2979, 3977, 3827, 249, 2650, 3773, 2817, 385, 4120, 696, 2397, 2485, 3774, 2819, 309, 359]. **Random**
[1559, 1387, 2089, 3907, 2398, 3708, 3709, 2215, 3617, 97, 254, 280, 281, 282, 312, 338, 341, 452, 453, 525, 563, 697, 698, 793, 794, 973, 1086, 1087, 1190, 1192, 1471, 1652, 1861, 1862, 1863, 1864, 2091, 2092, 2479, 2558, 2821, 2900, 387, 608, 3712, 2217, 3245, 2219, 1655, 2748, 2751, 4104, 1656, 1473, 1193, 1476, 1049, 1564, 2098, 796, 2221, 390, 2099, 2752, 836, 1868, 564, 1138, 1305,

3620, 3830, 2100, 1194, 1306, 1390, 3135, 2407, 131, 418, 187, 459, 1090, 4084, 3250, 527, 391, 3364, 2829, 2571, 2661, 2759, 3719, 3913, 3136]. **Random** [612, 741, 876, 2487, 419, 2319, 3477, 3478, 659, 2655, 2656, 1872, 2104, 3253, 617, 878, 1772, 1876, 3948, 1775, 2321, 974, 2229, 3369, 344, 1576, 663, 1663, 3257, 206, 702, 4105, 932, 2572, 2912, 3486, 1398, 3487, 3722, 2412, 2111, 840, 1, 4059, 1198, 1479, 1778, 3141, 1995, 1092, 1667, 2490, 976, 2231, 3373, 2837, 1997, 2116, 1199, 362, 392, 460, 1998, 1093, 745, 421, 366, 529, 1481, 1782, 4061, 4024, 3493, 3625, 3724, 148, 393, 2667, 705, 530, 3874, 3915, 623, 707, 2003, 2914, 531, 843, 3375, 1783, 55, 57, 2840, 262, 2005, 1054, 3496, 3497]. **Random** [3498, 3499, 1099, 369, 2121, 229, 3261, 1582, 937, 1021, 807, 1583, 2669, 3500, 3263, 4062, 1882, 2494, 3786, 3501, 3502, 3729, 2995, 2122, 3986, 3836, 1260, 3377, 3378, 1584, 711, 1101, 1203, 532, 370, 287, 2495, 2671, 2843, 985, 986, 1023, 1055, 1102, 533, 2919, 3266, 749, 627, 939, 3081, 207, 423, 424, 1588, 3145, 1204, 372, 750, 2420, 1589, 2126, 3508, 3083, 989, 2241, 536, 573, 2999, 464, 1888, 2500, 630, 426, 2503, 2505, 631, 891, 1263, 2012, 149, 395, 396, 537, 3381, 3509, 892, 1317, 208, 347, 538, 3271, 428, 2332, 539]. **Random** [3149, 2584, 3639, 632, 3150, 3954, 3987, 2680, 849, 893, 894, 991, 2333, 2334, 2423, 2682, 3272, 3273, 2923, 136, 374, 3387, 3004, 1486, 1487, 2020, 3275, 3388, 1148, 3153, 3276, 3517, 3880, 1594, 9, 107, 210, 3278, 3519, 168, 3391, 3392, 2925, 576, 671, 1057, 1596, 2427, 2853, 315, 3156, 1679, 3393, 3280, 3281, 1680, 2246, 2247, 3395, 1058, 3521, 1104, 429, 2136, 2856, 1151, 1207, 1323, 3644, 540, 541, 1599, 2587, 1208, 3398, 1682, 852, 717, 810, 1683, 945, 2249, 3400, 1324, 2512, 3402, 3650, 430, 431, 895, 1059, 1153, 1325, 1800, 3526, 3289]. **Random** [754, 813, 70, 3290, 3404, 2435, 1266, 1802, 1605, 2337, 266, 947, 2691, 432, 3794, 3405, 3529, 3653, 3737, 3406, 1491, 1687, 3295, 3531, 853, 3409, 1268, 4067, 3410, 2590, 2437, 3894, 407, 3437, 944, 3411, 3796, 3994, 2591, 433, 1155, 1210, 1326, 1327, 1328, 1492, 3739, 2592, 2593, 3885, 634, 635, 1411, 316, 1413, 817, 719, 3413, 4110, 1271, 3959, 3163, 3164, 1903, 1493, 1332, 1691, 3165, 818, 3540, 3541, 1609, 1692, 3842, 756, 1273, 1803, 2147, 500, 3740, 2034, 2149, 3961, 3660, 1694, 1498, 903, 1028, 1695, 3298, 3299, 435, 436, 4033, 2343, 904, 905]. **random** [3169, 3546, 1907, 1697, 2256, 1334, 2934, 2346, 3800, 3844, 4111, 4034, 3549, 3745, 3746, 3801, 1274, 1908, 2154, 1062, 1063, 3095, 3662, 3417, 150, 3300, 583, 3172, 2600, 2601, 3888, 1500, 1611, 1698, 468, 677, 2784, 3553, 3173, 318, 2937, 2938, 3748, 3749, 1699, 3174, 1418, 2939, 1612, 2259, 2440, 3666, 3667, 3930, 3963, 855, 1503, 720, 585, 2161, 3846, 1504, 2865, 3301, 3302, 3423, 1420, 3424, 503, 2162, 3178, 3179, 3303, 3304, 1159, 760, 235, 3559, 822, 194, 1909, 1215, 2038, 182, 4124, 1505, 238, 679, 1704, 2698, 3023, 3099, 1706, 1109, 586, 71, 89]. **random** [953, 1216, 3100, 3805, 2443, 3181, 2787, 636, 912, 1708, 104, 3305, 3848, 195, 1217, 505, 587, 3931, 2602, 1279, 1615, 1915, 3429, 1426, 723, 548, 680, 1069, 3186, 3307, 3566, 3806, 3807, 3101, 1918, 1919, 3189, 1281, 3190, 37, 4125, 4001, 3849, 214, 215, 3568, 1920, 2169, 549, 681, 3313, 682, 1712, 1284, 1618, 2045, 2265, 3192, 2448, 2046, 2170, 2266, 2356, 2523, 3025, 1032, 406,

3808, 3314, 3315, 3569, 1342, 1427, 1508, 1428, 3316, 3570, 1344, 217, 297, 1345, 1512, 1513, 1814, 3317, 3436, 998, 1429, 1510, 1033, 3571, 1619, 1620, 1718, 1719, 2705, 2790, 2872]. **random** [3751, 3933, 1347, 3573, 999, 1000, 1034, 1070, 1112, 1114, 1115, 1225, 1720, 1816, 1929, 637, 1001, 441, 552, 589, 685, 43, 3752, 3321, 1623, 3105, 1515, 3322, 3438, 4005, 408, 3753, 1003, 1818, 113, 3440, 3109, 1431, 2793, 378, 2272, 1036, 3200, 3110, 218, 3324, 686, 1434, 2276, 1229, 1289, 1352, 3576, 590, 2951, 2794, 2454, 2609, 2610, 1072, 3578, 3971, 3202, 2874, 1435, 2953, 4007, 2456, 153, 1291, 2875, 726, 1168, 2185, 2457, 2458, 2459, 2613, 1733, 3580, 141, 1169, 1523, 2186, 2615, 1827, 1231, 1232, 1354, 242, 2065, 1233, 3936, 48, 60]. **random** [91, 92, 595, 596, 273, 184, 274, 1123, 769, 1235, 729, 3814, 770, 1075, 1356, 1040, 3034, 3755, 827, 2461, 2531, 1006, 2618, 3937, 116, 142, 2719, 772, 199, 219, 2465, 174, 478, 916, 961, 3039, 1174, 413, 2801, 3446, 2802, 1737, 1533, 1833, 446, 1294, 775, 777, 1009, 479, 1239, 1295, 1363, 83, 93, 480, 778, 2621, 3334, 3335, 1364, 3449, 3897, 2068, 2190, 3450, 3337, 1534, 3689, 221, 222, 324, 1444, 75, 1127, 2070, 2071, 3938, 3590, 690, 4012, 1946, 3117, 3342, 962, 3594, 2374, 2377, 1077, 1949, 2076, 3939, 382, 1535, 920]. **random** [2807, 2963, 3762, 780, 305, 691, 1953, 1079, 2965, 1536, 1840, 1843, 1954, 2537, 2809, 3819, 1447, 67, 76, 3694, 1241, 3820, 3211, 2628, 3346, 4055, 1242, 1636, 3597, 224, 3598, 1010, 3766, 1449, 1450, 1740, 2539, 3213, 1243, 2468, 1741, 1538, 2381, 3454, 2300, 2515, 1081, 2542, 4039, 3600, 1959, 3455, 1182, 331, 965, 3216, 3347, 3121, 1298, 84, 1183, 21, 1244, 95, 1129, 2199, 1453, 1454, 2966, 3458, 3348, 1455, 2200, 2301, 2302, 2383, 3601, 1011, 1964, 1966, 1043, 3940, 2303, 3219, 3220, 3221, 3349, 3223, 1012, 733, 26, 31, 32, 1458, 2887, 4016, 4057, 782]. **random** [332, 923, 1013, 1246, 2888, 482, 2385, 358, 784, 1642, 307, 2387, 4018, 1643, 1461, 2969, 3823, 2472, 4146, 925, 1015, 1044, 248, 3941, 2732, 3123, 2970, 3051, 3124, 786, 1132, 831, 4101, 3460, 1382, 1647, 1855, 1974, 2205, 2210, 2307, 2309, 2310, 2311, 2390, 2394, 2635, 2636, 2735, 2889, 2972, 2973, 3125, 3127, 3770, 3943, 3350, 1016, 4081, 1186, 3461, 1133, 3228, 3351, 2473, 1969, 1970, 787, 484, 2893, 2895, 3058, 3231, 1975, 3859, 3703, 2643, 2554, 652, 2646, 2815, 3358, 3607, 2976, 3608, 3706, 4119, 2648, 3772, 1467, 2980, 4082, 1858, 521, 3465, 3130, 3466, 3611, 3614, 1754, 3860, 3906]. **random** [2818, 2981, 1250, 3468, 1251, 1648, 2214, 1978, 158, 3470, 335, 604, 18, 2742, 1649, 1650, 1757, 1860, 1981, 654, 1252, 3616, 3775, 3863, 3864, 251, 2556, 3360, 3361, 417, 3710, 226, 252, 253, 255, 283, 311, 337, 386, 450, 451, 488, 524, 657, 1135, 1191, 1560, 1561, 1562, 1651, 1758, 1982, 1984, 2316, 2400, 2560, 2743, 2822, 3060, 3471, 388, 1472, 2745, 3242, 3776, 4022, 3618, 3243, 3711, 3777, 3829, 1866, 2403, 2096, 2097, 2481, 77, 1563, 1761, 3247, 2405, 284, 699, 738, 1018, 3619, 2827, 2908, 1763, 160, 1048, 130, 491]. **random** [1658, 2220, 797, 457, 458, 835, 2406, 3134, 3714, 3780, 798, 1565, 3363, 611, 739, 1089, 3474, 2653, 927, 2101, 928, 61, 313, 3868, 837, 3065, 3783, 2486, 1766, 3475, 838, 2654, 28, 3365, 613, 3476, 2318, 3066, 3717, 615, 1308, 1767, 1873, 2224, 2831, 565, 566, 700, 802, 803, 804, 839, 879, 1196, 1570, 1662, 930, 931, 3479, 3256, 619, 3832, 2322, 3370, 3480, 2910, 664, 1577, 2489, 881, 3785,

420, 2323, 227, 3138, 2989, 3485, 1397, 2230, 361, 1140, 1664, 2760, 3372, 2411, 1579, 493, 1478, 1141, 162, 494, 258, 1091, 45, 2664]. **random** [1776, 3489, 1400, 1051, 3258, 3984, 2414, 2573, 2491, 2114, 568, 3623, 1313, 363, 365, 2325, 3490, 667, 805, 3072, 668, 704, 345, 3952, 1142, 228, 2666, 622, 2574, 3492, 1881, 2001, 2002, 260, 624, 368, 1200, 844, 625, 3626, 188, 2415, 3726, 2416, 1483, 977, 978, 189, 3376, 3985, 3074, 1097, 570, 936, 1403, 845, 3875, 46, 3076, 806, 2493, 134, 3142, 2915, 1671, 938, 980, 1202, 2576, 884, 1100, 708, 3628, 1315, 981, 3878, 3916, 3917, 3879, 3079, 670, 1022, 748, 712, 626, 2124, 1785, 534, 535, 571, 1586, 713, 1146, 2996, 3788, 135, 1884]. **random** [3730, 191, 495, 371, 3629, 3630, 1404, 1485, 1587, 1675, 1787, 2125, 2239, 2240, 2920, 3789, 2844, 2672, 2765, 2673, 4087, 1788, 1885, 2328, 2497, 1056, 3506, 848, 1886, 1261, 1262, 462, 2674, 2675, 2009, 3953, 263, 289, 463, 3837, 2242, 2329, 1205, 192, 346, 2499, 2845, 2330, 2676, 2846, 3635, 2847, 1591, 2013, 2506, 2582, 2583, 79, 2848, 3148, 3637, 2677, 2678, 574, 3638, 2131, 2767, 2849, 2921, 4089, 3382, 3383, 3640, 2922, 3988, 2244, 2585, 2768, 942, 2683, 2769, 2771, 2851, 3001, 3002, 3003, 3086, 3087, 3151, 3512, 3513, 3514, 3641, 3642, 3274, 3515, 850, 165]. **random** [3516, 1676, 1892, 2133, 1206, 3088, 3152, 3154, 3792, 3793, 3840, 2426, 193, 1595, 3518, 3390, 2508, 2586, 167, 1893, 3279, 4065, 2509, 2510, 1321, 992, 3155, 2854, 3990, 3394, 4066, 2774, 2855, 3881, 3520, 851, 3522, 3523, 2688, 2023, 2024, 2511, 1105, 3734, 3645, 36, 4047, 3991, 577, 633, 673, 1681, 3646, 716, 2139, 2928, 232, 1600, 177, 1601, 1895, 3089, 3286, 3647, 3882, 1799, 2689, 3401, 3403, 718, 465, 3007, 3090, 1490, 2588, 3288, 3525, 3651, 3736, 1897, 812, 2434, 2929, 1801, 2436, 20, 2338, 2777, 3091, 3528, 3652, 3291, 4091, 3530, 3092, 3292, 2589, 1686]. **random** [2931, 2779, 1606, 3654, 3407, 3408, 3533, 3922, 29, 3534, 3011, 3535, 3655, 3795, 3841, 896, 1269, 3536, 579, 3012, 1901, 3681, 4118, 1597, 176, 100, 268, 1032, 2863, 269, 170, 321, 308, 129, 3771, 658, 364, 314, 3080, 2022, 2782, 3752, 2841, 2936, 294, 401, 2520, 517, 561, 485, 2905, 1764, 1871, 1887]. **random-access** [3213]. **Random-Bit** [1425, 549]. **random-difference** [20]. **Random-Number** [3676, 1616, 1348, 2707, 1739, 1545, 1640, 3774, 3245, 2221, 3948, 2003, 2122, 533, 1588, 1324, 3402, 1325, 2437, 1700, 1424, 404, 2572, 1909, 1109, 1615, 2045, 3751, 780, 2210, 2307, 2735, 3703, 657, 2743, 3471, 2910, 1667, 2114, 1313, 3626, 3383, 2338]. **random-pulse** [681]. **Random-Start** [3369]. **Random-Variate** [2999]. **random-walk** [2328]. **randomised** [1905]. **Randomization** [950, 951, 2044, 956, 1288, 2054, 3111, 1944, 646, 731, 963, 1542, 966, 971, 972, 979, 2772, 2927, 3559, 2039, 3440, 3971, 80, 1008]. **randomize** [2688]. **Randomized** [2064, 2714, 3589, 1375, 1849, 2814, 1766, 2223, 2324, 3896, 2736, 3462, 704]. **randomizer** [1520]. **Randomly** [868, 2109, 669, 2234, 1489, 22, 1851, 3463]. **randomly-shifted** [3463]. **Randomness** [3537, 676, 4048, 3797, 3017, 1030, 127, 3664, 2348, 63, 1913, 3183, 722, 2522, 3432, 1926, 1927, 4127, 3439, 1930, 2950, 3036, 1439, 1360, 2188, 687, 2624,

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X [1400]. **X-MP** [1400]. **X9.31** [2967]. **Xilinx** [4095]. **Xing** [2762]. **XOR** [2037, 4087, 2507, 2679]. **xorgens** [2698]. **xoroshiro** [3965]. **xoroshiro128** [4099, 4020]. **xors** [3023, 3099]. **Xorshift** [4032, 2867, 2823, 2989, 3920, 3957]. **xorshift1024** [4020]. **Xorshift1024*** [4020]. **xorshift128** [4079, 4020]. **xoshiro** [3965]. **XP** [2749]. **XSadd** [3835]. **XTEA** [2943, 2883, 2754, 2432]. **xviii** [3735]. **XXIV** [70].

Yarrow [2419, 2546, 2755]. **Yarrow-160** [2546]. **year** [2521]. **Years** [3161, 2100]. **yesterday** [4186]. **York** [4184, 4335, 994, 170, 4192, 4205, 4273]. **Yorker** [4144]. **You're** [4060]. **Yuen** [3219].

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