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

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Title word cross-reference

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

$(0, 1)$ [1077]. $(0, s)$ [2578, 2979]. $(a^n - 1)/(a - 1)$ [939]. (j, ϵ) [746]. $(n^2\alpha)$ [2529]. $(n^k\alpha)$ [2530]. $(n\alpha)$ [2529]. (t, m, s) [2081, 2936, 2087, 2388]. (t, s) [2674, 2081, 2379, 2936, 2087]. (X, Y) [3695]. $(X^2 - Y^2)^{1/2}$ [499]. $0.1(0 \times 1)0 \times 9$ [141]. 1 [753, 896, 2889, 173, 306, 728, 3014, 3016]. $1, 2, 3$ [3550]. $1.13198824\ldots$ [2553]. $10,000$ [285]. **$10.00** [170]. 10^{2857} [2524]. 10^{435} [2078]. 1200μ [3179]. 128 [3205]. 13 [273]. 16 [273]. 2 [2889, 2156, 951, 3141, 2538, 2868, 3018]. 2,000 [87]. **$24.95** [2124]. $2^{-31} - 1$ [856, 952]. 2^{15} [2174]. $2^{31} - 1$ [3600, 820, 995, 1028, 1219, 1220]. $2^{31} - 69$ [3443]. $2^{32} - 1$ [1110]. 2^{α} [1502, 2275]. 2^{β} [1341, 1509, 1761]. 2^k [2655]. 2^{k-1} [2655]. 2^p [3300]. $2^p - 1$ [2308]. 2^t [3932]. 3 [1817, 3741]. 32 [3686]. 4 [273]. 48

[248]. 5 [273]. **$52.95** [3652]. 64 [3873]. $[0,1]$ [219, 868]. $^{-1}$ [3687]. ^{2} [3179]. $_{\tau}$ [2410, 1990]. a [369]. $a = \pm 2^q \pm 2^r$ [2442, 2516]. a_n [664]. $\alpha \geq 1$ [3690]. $\alpha\lambda$ [730, 731]. b [2171, 3394]. $b = 2, 3, 5, 6, 7, 10, 11, 12$ [1057, 1326, 2662]. $b^n \pm 1$ [1057, 1326, 2662]. $\beta = 32$ [1341]. $\beta = 48$ [1341]. $\beta \simeq 32$ [1509]. $\beta \simeq 48$ [1509]. $\left\{\frac{a}{m}j^2\right\}, \left\{\frac{a}{m}(j+\tau)^2\right\}$ [328]. $\bmod 1$ [301, 302, 407, 656, 739, 661]. $\bmod n$ [2241]. C^∞ [1285]. $C\exp(-\lambda|x|^\nu)$ [1490]. χ^2 [349, 947, 1107, 1108, 1109, 6, 7]. D [2414, 1837, 3026, 2115]. d^2 [93]. e [81, 1528, 87, 372]. ϵ [1942]. F_2 [3060, 3070, 3286, 3873]. F_{2^w} [2869]. G [452, 453]. Γ [1240, 1214]. j [2042]. K [2228, 3891, 1478, 3861, 3893, 1795, 2148, 1062, 1343, 1949, 3740, 3771, 1128, 1381, 1998]. $k > 1$ [1370]. L^2 [2066, 1994]. L_2 [2166]. L_p [2439]. λ [2858]. M [1457, 1224, 1190, 849, 469, 1064, 1033, 446, 250, 1374, 2191, 2374, 2109, 2216, 2218, 2305, 1139, 231]. $\mathbf{F}_2$ [3144, 3516]. $\mathbf{F}_{2^w}$ [3017]. $\mathbf{F}_q$ [3263, 3571]. $\mathbf{F}_{q^m}$ [3263, 3571]. $\mathbf{F_2}$ [3517]. $\mathrm{GF}(2^{\mathrm{m}})$ [1587]. μ [3242]. N [1157, 915, 270, 1331, 1706, 1707, 2262, 727, 3737, 205, 621, 196, 2830, 201, 1544, 3850, 801, 207, 429, 804]. O(3) [1589]. $O(n(1+\log(N/n)))$ [1959]. P [6, 725, 3911, 3985, 3184, 2461, 2209, 3396, 2222, 2406]. $\partial^2 u/\partial x^2 + \partial^2 u/\partial y^2 + (K/y)(\partial u/\partial y) = 0$ [197]. π [2902, 81, 1528, 87, 285, 288, 2955]. ± 1 [664]. $\pm 2^{k_1} \pm 2^{k_2}$ [2308]. $\pm 2^{p_1} \pm 2^{p_2}$ [2647]. q [2542]. S [1027, 1900]. σ [1589]. $\sqrt{2}$ [410, 441]. $\sum a_n/n$ [664]. T [2609, 2886, 1890, 850, 1900, 1329, 3064, 867, 961, 966, 40]. $U(0,1)$ [2760]. $X(I+1) = AX(I) \bmod 2^{31}1$ [782]. X/Z [3695]. $x^2 \bmod N$ [2025]. $X_{n+1} = a_n X_n + b_n \pmod p$ [1822]. $X_t = X_{t-3p} \oplus X_{t-3q}$ [1512]. Y/Z [3695]. $y = [(a+x)\sin(bx)] \bmod 1$ [2386]. Z [3695]. Z/nZ [1933]. Z_p [1412].

good [2706].

-adic [3394, 453, 452, 2406]. **-biased** [1942]. **-Bit** [3205, 3873, 248]. **-concave** [2609]. **-D** [3141]. **-deformed** [2542]. **-dependent** [1942]. **-Detection** [3850]. **-digit** [273]. **-Dimensional** [270, 196, 201, 915, 1544, 1998, 1795, 804, 205, 1331, 3026]. **-discrepancy** [2066]. **-distributed** [1343]. **-Distribution** [966, 1890, 1062]. **-distributions** [1837, 2115]. **-échantillon** [801]. **-estimates** [1457]. **-Fock** [2542]. **-function** [2042, 2858]. **-functions** [1285]. **-homomorphism** [2414]. **-Linear** [3060, 3144, 3873, 3070, 3286, 3516, 3517]. **-model** [1589]. **-net** [2081]. **-Nets** [2936, 2087, 2388]. **-nm** [3686]. **-observation** [1706, 1707]. **-quanta** [1214]. **-Random** [2222]. **-sample** [801]. **-sequence** [1033, 1374, 2374, 2081, 1224, 1190]. **-Sequences** [849, 2578, 2979, 446, 2379, 2936, 2087, 2674, 1064, 2191, 2109, 2216, 2218, 2305]. **-sphere** [1139, 429]. **-step** [1128, 1381]. **-System** [2228]. **-Values** [725, 3184]. **-Vector** [3893, 3861, 3740, 3771]. **-wise** [3891, 1478, 2148, 1949].

/dev/random [2744, 2800, 2891]. **/dev/urandom** [2800].

0.57pJ [3314]. **0.57pJ/bit** [3314]. **'05** [4153, 4157]. **'07** [4163]. **'08** [4168].

1 [763, 1066, 1955, 1956, 3425, 3329]. **1.04** [3242]. **1.1** [3764]. **1.6** [3687]. **'10** [4181, 908]. **1013** [3936]. **106** [1109, 842]. **10th** [4011, 4158]. **11** [1335]. **111** [815]. **11th** [4007, 4177, 4089]. **12** [892]. **120** [2887]. **128-bit** [2495, 3198]. **12th** [4157]. **'13** [4203]. **133** [268, 269, 308, 314]. **134** [896]. **13th** [4125]. **14th** [4164, 4092]. **153** [950, 1108, 1109]. **155** [947, 1109]. **157** [998]. **16** [1500, 3025, 933]. **16-Bit** [1288, 1898, 759, 1500, 2212]. **16-bit-PC** [1500]. **160** [2512]. **16th** [4075]. **1750** [1913]. **17th** [4181]. **181** [1861]. **183** [1181, 1048, 1142, 1255]. **193** [1167, 1067]. **1949** [3999]. **1953** [4002]. **1954** [4003]. **1957** [4004]. **1960** [4005]. **1962** [4009]. **1965** [4011]. **1967** [4012]. **1970** [506]. **1971** [4015]. **1974** [4017]. **1976** [4021, 4018]. **1978** [4022]. **1981** [4027]. **1983** [4030, 4033]. **1984** [4037, 4035]. **1986** [4041, 4045]. **1987** [4046]. **1988** [4052, 4051, 4053, 4055, 4056]. **1989** [4061]. **1990** [4062, 4063, 4077]. **1991** [4069, 4070, 4075]. **1992** [4073, 4080, 4081]. **1994** [4091, 4093, 4101, 4094, 4095]. **1995** [4096, 4107, 4098]. **1996** [4121, 4109]. **1997** [4110, 4114]. **1998** [4127, 4120, 4128]. **1999** [4123, 4124]. **1a** [3429].

2 [196, 221, 2293, 3426]. **2.4GHz** [3438]. **20** [2124, 2462]. **200** [303, 364]. **2000** [4145, 4134, 3155]. **2001** [4140, 4142]. **2002** [4143, 2661, 4150]. **2003** [2935]. **2004** [4148, 2661, 4160]. **2005** [4153, 4162]. **2006** [4171]. **2007** [4163, 3180, 4167]. **2008** [4168, 4170, 4178]. **2009** [4179]. **2010** [4181, 4186]. **2011** [4193]. **2014** [3778, 3817]. **2018** [3886]. **204** [1107]. **205** [1406, 1118]. **20MHz** [2583]. **20th** [4208, 4055, 4056]. **21st** [4120, 2824]. **22** [2913, 3638]. **22nd** [4124]. **235** [321]. **23rd** [4028]. **247** [324]. **24th** [4031]. **25** [2137]. **25th** [4034]. **266** [361, 362, 628]. **267** [363]. **27th** [4166]. **28th** [4049]. **29** [504, 806]. **294** [425]. **29th** [4070, 4054]. **2nd** [4027, 4040].

3 [3146, 3773, 1976, 3427, 3780]. **3-Key** [2918]. **3.0** [2676]. **3.x** [2314]. **30** [3561]. **30th** [4060, 4081]. **31** [2596]. **31-bit** [771]. **31st** [4066]. **32-Bit** [1236, 2998, 3069, 1769, 3442]. **32-bit-word** [545]. **334** [434, 479]. **33rd** [4076]. **342** [459, 461]. **360** [813, 677, 478, 483, 492, 462]. **360/370** [721]. **369** [529]. **36th** [4148, 4099]. **370** [501, 618]. **37th** [4153, 4108]. **3800** [2120]. **381** [516, 623]. **38th** [4112]. **39th** [4163].

4 [465, 672, 3428]. **4086** [2903]. **40th** [4168]. **41st** [4133]. **42** [692, 693]. **4217th** [3443]. **4217th-order** [3443]. **425** [596, 697]. **42nd** [4137]. **440** [3111]. **440-nA** [3111]. **441** [644]. **45nm** [3314, 3438]. **46** [2137]. **48** [497]. **48-Bit** [1043, 929]. **488** [674]. **4Gbps** [3314].

5.0 [1668]. **5.2** [2800]. **500** [3367, 322]. **51st** [4187]. **52** [892]. **52nd** [4202]. **5th** [4169].

6 [3685]. **60th** [4204]. **61** [1255]. **623-dimensionally** [2373]. **64-bit**

[2246, 760, 2706, 2856, 2536, 3558, 3563]. **647** [1222]. **659** [1324, 2771]. **668** [1358]. **678** [1437]. **6th** [4132].

701 [155]. **71** [1266]. **712** [1735]. **738** [1893]. **76** [1034]. **780** [2343]. **79** [2170]. **7mW** [3438].

8-bit [2583]. **8.8/11.2** [4185]. **800** [3046, 3815]. **800-22** [3429]. **800-90** [3046]. **800-90B** [3815]. **802** [2503]. **806** [2527, 2528]. **8088/8086** [1268]. **80f** [933]. **82** [4029]. **82g** [1066]. **82h** [1034]. **84** [4039]. **85** [2048]. **'86** [4050]. **'87** [4047]. **'88** [4065]. **8th** [4197, 4053].

'90 [4067, 3046, 2054]. **90/150** [2801]. **90/95** [2673]. **90B** [3815]. **'91** [4075]. **92** [716]. **'93** [4082, 4085]. **'94** [4092, 4093, 4094]. **947** [3734]. **'95** [4098, 4100, 2013]. **958** [3804]. **'96** [4104, 4109]. **'97** [4114, 2451]. **970** [3854]. **978** [3685]. **978-0-521-17561-6** [3685]. **978-0-88385-043-5** [3652]. **97j** [2293]. **'98** [4127, 768, 862]. **9th** [4185].

= [4004, 4015].

A.2.4 [2918]. **AAECC** [4125]. **AAECC-13** [4125]. **AbBT** [1622]. **Absolute** [400, 371]. **Absorption** [290]. **Abstract** [2416, 1162, 1516, 2597, 1633, 1638, 1553, 1195, 3613, 1436, 2508, 1829, 3526, 1241, 2474, 2477]. **abstracts** [4075]. **abuses** [1388]. **AC** [1991]. **Accelerated** [3289, 1879, 3662, 3712, 3671, 3166]. **Accelerating** [2320, 3376, 3745]. **Acceleration** [3866, 2263, 3723, 3907, 1952]. **Acceptance** [1510, 3613, 1120, 975, 3789, 2893, 1006, 1034]. **Acceptance-Complement** [1120]. **Acceptance-Rejection** [1510, 3613, 3789, 2893, 1006, 1034]. **Acceptance/rejection** [975]. **Access** [1791, 2027, 3938, 2194, 1693, 1694, 3149, 2077, 2741]. **according** [11, 694]. **Accumulated** [338, 1986]. **Accuracy** [212, 2749, 1337, 1447, 651, 1182, 2556, 3106, 3539, 2451, 2712, 2935, 3180, 3295, 563, 3748, 573, 629, 2195, 3040]. **Accurate** [3040, 851, 3767, 3105, 600, 3689]. **Achieve** [3899]. **achieving** [440]. **Acknowledgement** [692, 693]. **ACM** [4090, 4041, 4046, 4052, 4062, 4073, 4082, 4091, 4096, 4123, 4130, 4143, 4153, 4163, 4168, 4180, 4189, 4196, 4203, 4070, 4157, 4179, 4094, 674, 501, 596, 516, 644, 361, 618, 3546, 529]. **ACM-SIAM** [4090]. **ACORN** [1475, 1783]. **acquisition** [2271]. **acquisition-processing** [2271]. **ACR** [1521]. **Actel** [3134]. **actions** [2055]. **Active** [3585, 3093]. **Actuarial** [4152]. **Acyclic** [1402]. **Ada** [1403, 2013, 1206, 1721, 1354]. **Adams** [2243]. **Adaptive** [3044, 2045, 2261, 3146, 915, 732, 3753, 3388, 2277, 3740, 3551, 804]. **Add** [1777, 2655, 1925, 1875]. **Add-with-Carry** [1777, 1875]. **Addendum** [1328]. **addition** [2195]. **additional** [803]. **additions** [2061]. **Additive** [2122, 2656, 905, 2243, 200, 185, 2072, 2073, 2861, 455, 632, 470, 555, 598, 599, 1968, 839, 2304, 3570, 3222, 3453]. **adic** [3394, 452, 453, 2406]. **Adjoint**

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G [541, 2973, 594, 637, 1956, 1079, 262, 70]. **G5** [380, 391, 434, 674, 596, 479, 644, 362, 363, 364, 618, 461, 628]. **Galois** [2228]. **gambler** [3162]. **Gambling** [2481, 2653, 3708]. **Game** [2870, 3922, 2822, 3149]. **game-playing** [2822]. **gaming** [489]. **Gamma** [670, 3975, 752, 814, 542, 819, 906, 1272, 766, 867, 919, 2369, 2525, 1375, 3946, 2208, 1044, 534, 887, 888, 1015, 712, 805, 3705, 892, 897, 1261, 1053, 853, 377, 2836, 1032, 1231, 331, 961, 3067, 3845, 785, 3399, 828, 1078, 2086, 565, 617, 701, 880, 980, 747, 1016, 3208, 846, 748, 713, 1018, 761, 683, 3690]. **gamma-distributed** [331, 683]. **Gamma-distribution** [761]. **gamma-rays** [1078]. **gammaverteilten** [331]. **gap** [235]. **gas** [813, 677, 2300]. **GASPRNG** [3671]. **Gate** [3146, 2615, 3039]. **Gates** [3101, 3378]. **Gateway** [4139, 4033, 4080]. **Gathering** [2657]. **Gauss** [1852]. **Gaussian** [3105, 2656, 3936, 897, 1019, 1406, 674, 1100, 3246, 2491, 3719, 1609, 3056, 3258, 298, 350, 2833, 3608, 2269, 3728, 2271, 2511, 3387, 2695, 2851, 2925, 3004, 3005, 3169, 3530, 3623, 3539, 3689, 3767, 3809, 651, 1637, 451, 1038, 3739, 876, 365, 3020, 3430, 3431, 3745, 534, 396, 3095, 3210, 3704, 3748, 3784, 1876, 3450, 1584, 889, 2959, 2306, 2400]. **Gaussian-distributed** [3387]. **Gbit** [3561]. **Gbit/s** [3561]. **GCD** [1262, 1827, 1185, 1298, 1989, 1992, 2105, 1879]. **GCDs** [3174]. **GECCO** [4155, 4142]. **GECCO-2001** [4142]. **geeks** [2784]. **gems** [4191, 4201, 4172]. **Gen2** [3242, 3433]. **généateurs** [3996]. **General** [946, 501, 1930, 1931, 2052, 3804, 3169, 524, 106, 1081, 847, 3223, 2311, 4071, 721, 3764, 385, 968, 1249, 3090, 3556, 3885, 618]. **General-Purpose** [1081]. **Generalised** [2172, 897]. **Generalization** [444, 238]. **generalizations** [3602]. **Generalized** [3862, 1209, 1328, 1701, 2829, 3259, 1369, 648, 388, 3302, 2734, 1019, 3923, 1894, 3241, 1799, 3719, 1919, 2756, 410, 441, 1351, 3513, 2836, 3728, 1940, 3067, 2062, 3168, 3530, 1850, 1297, 2631, 2725, 2940, 3026, 2731, 1062]. **Generate** [1320, 1022, 1096, 1893, 2589, 1526, 3707, 1886, 2410, 772, 2168, 1229, 3885, 1587, 1880, 1671, 2008]. **Generated** [3231, 3347, 267, 244, 1069, 613, 3776, 373, 3575, 1313, 1786, 581, 755, 1700, 438, 471, 585, 3602, 1419, 1503, 242, 765, 1344, 3058, 638, 1937, 1033, 2275, 2061, 2062, 1174, 3535, 2187, 2368, 695, 797, 1184, 1462, 1557, 2533, 3188, 3637, 926, 836, 1041, 3554, 2885, 233, 2309]. **generates** [2616, 2945]. **générateurs** [1367, 2647, 2538, 2184]. **Generating** [1018, 2123, 2226, 814, 1679, 3827, 2889, 1596, 1788, 899, 945, 3589, 542, 1099, 1895, 2236, 852, 3718, 3365, 3757, 270, 196, 1210, 1211, 1606, 1798, 2494, 992, 1273, 3139, 153, 323, 408, 3509, 3510, 3924, 478, 245, 201, 1938, 3728, 3729, 155, 2511, 1947, 2059, 777, 1728, 1729, 1120, 1007, 1839, 3530, 309, 2067, 3539, 251, 870, 253, 254, 280, 281, 311, 335, 788, 966, 1126, 2369, 2525, 1642, 2076,

791, 1375, 3631, 831, 3543, 1293, 1376, 204, 205, 524, 2790, 1561, 1564, 3416, 2458, 1978, 2093, 527, 619, 702, 3309, 2207, 1247, 2208, 1091]. **Generating** [460, 2215, 1136, 626, 2301, 2548, 2475, 1310, 847, 2115, 1141, 713, 2956, 3037, 1393, 1050, 2561, 3752, 675, 1901, 1101, 1103, 767, 1926, 1227, 3609, 94, 1521, 1826, 3613, 1533, 961, 1834, 918, 3067, 1449, 2610, 3623, 785, 334, 226, 255, 283, 336, 828, 1124, 2370, 2526, 3812, 488, 2376, 3694, 920, 3012, 2381, 565, 617, 662, 344, 1864, 701, 621, 2386, 566, 3779, 1089, 880, 980, 2802, 1576, 3971, 747, 845, 193, 167, 1666, 3998, 711, 1475, 3973, 2555, 3655, 1883]. **Generation** [3465, 3891, 1017, 1398, 2408, 3858, 1260, 2818, 3710, 849, 541, 752, 753, 893, 894, 895, 896, 3474, 2315, 2891, 2967, 1322, 2231, 1487, 2320, 2487, 2322, 2141, 3488, 851, 757, 2569, 819, 1100, 1269, 759, 216, 547, 469, 1330, 2026, 1499, 2492, 1102, 1212, 2147, 2751, 2974, 634, 3257, 1060, 1335, 1216, 2036, 3722, 2422, 1106, 2337, 2979, 91, 92, 2677, 1924, 2340, 594, 2341, 2757, 3266, 637, 444, 2342, 2587, 325, 2269, 1723, 1936, 2841, 3614, 3148, 2592, 596, 1357, 2690, 330, 2692, 2172, 2693, 1072, 1359, 3616, 3617, 1948, 865, 1626, 3941].
Generation
[776, 825, 867, 1535, 2276, 1451, 2603, 2849, 3001, 3165, 827, 3734, 1175, 3909, 3292, 249, 3687, 691, 1635, 1741, 3809, 3626, 2188, 1846, 2857, 2072, 2073, 3008, 451, 2192, 2862, 653, 607, 734, 1182, 3079, 131, 187, 1079, 2537, 3636, 3815, 608, 1756, 2084, 2198, 658, 697, 227, 3944, 1081, 663, 3850, 3946, 3914, 260, 1984, 3308, 1387, 1655, 1012, 2944, 3744, 1569, 3088, 2544, 287, 841, 879, 976, 977, 978, 979, 1014, 1092, 1192, 3437, 1990, 1870, 2948, 627, 885, 1250, 1774, 3205, 570, 2303, 3092, 3561, 3853, 3884, 887, 888, 1015]. **Generation** [2645, 136, 165, 1778, 3096, 3210, 1876, 3213, 3214, 2219, 426, 1140, 1195, 537, 538, 1667, 712, 2479, 1590, 3654, 3823, 3577, 3789, 631, 3991, 1258, 431, 2484, 3860, 1483, 1787, 3109, 3232, 3790, 1890, 1321, 2966, 3475, 3476, 3661, 3662, 3663, 3712, 1261, 1891, 2130, 3041, 3584, 349, 3113, 987, 2892, 3665, 850, 3896, 2138, 3116, 817, 1055, 1892, 182, 1490, 1410, 946, 905, 1692, 401, 1793, 3832, 402, 2414, 2324, 3047, 2023, 2326, 468, 1329, 1331, 989, 1605, 1703, 2829, 3366, 990, 991, 1024, 1104, 1213, 1704, 1705, 1799, 2244, 3253, 3719, 994, 1153, 1417].
generation
[218, 2038, 2157, 322, 2831, 1421, 2425, 764, 553, 1064, 1280, 1424, 1512, 2982, 555, 185, 1282, 1350, 639, 2835, 3673, 3904, 3380, 3799, 3758, 2991, 2054, 1068, 1823, 2504, 2688, 2769, 1433, 3147, 1032, 202, 1436, 1725, 1523, 1524, 824, 1070, 3928, 118, 1171, 1232, 3157, 1003, 3942, 1444, 779, 1446, 3982, 1006, 1034, 3841, 1957, 2361, 2364, 2848, 3620, 3843, 1837, 129, 3621, 3993, 3686, 1452, 3965, 3765, 3808, 1237, 158, 1454, 3767, 2522, 789, 1075, 3690, 1848, 1968, 2448, 2527, 2528, 1849, 160, 130, 1127, 3633, 3814, 561, 562, 1647, 1754, 1755, 1972].
generation
[2083, 2085, 615, 3303, 876, 3697, 418, 3849, 490, 3775, 1080, 1040, 3545, 3851, 3020, 3422, 3021, 1086, 1042, 3024, 3086, 931, 973, 3988, 1190, 878, 2543, 975, 3027, 3745, 2300, 1193, 983, 149, 2107, 3562, 2218, 2551, 1472, 3035, 3097, 3704, 1580, 2552, 1308, 3887, 1139, 1309, 846, 3651, 573, 629, 668, 710, 3333, 3102, 2554, 3573, 3653, 2404, 1589, 1253, 2406, 2654, 2739, 3796, 1582, 3331,

1892, 322, 1580, 1500, 1001, 622, 890, 759, 1517, 1531, 1532, 1304, 2973, 3049]. **Generations** [3486, 3528, 3243, 2393]. **Generator** [3578, 1146, 3466, 1200, 1889, 3469, 3231, 3347, 2228, 3111, 2128, 295, 3478, 3585, 754, 3755, 3482, 1202, 3591, 1324, 902, 501, 1411, 818, 1492, 3491, 3361, 3976, 2018, 3125, 3242, 3363, 3954, 3992, 3596, 2022, 2416, 1151, 1601, 2325, 3246, 1905, 2900, 3900, 1607, 2752, 271, 2149, 3052, 3053, 3054, 3134, 3501, 2670, 2421, 2755, 3504, 3960, 1156, 3140, 2160, 3507, 1511, 3375, 821, 2498, 2680, 2907, 1346, 1426, 1514, 2431, 3376, 200, 243, 683, 1429, 3141, 3378, 3379, 3270, 507, 2988, 1283, 2435, 3272, 2838, 354, 3981, 1354, 3518, 1117, 3611, 3146, 2993, 1824, 2770, 1622]. **Generator** [3762, 2437, 3280, 1828, 3154, 1530, 1625, 3158, 3731, 2918, 2919, 3525, 1005, 332, 480, 1288, 3943, 3619, 2999, 646, 1735, 1736, 3172, 3806, 2930, 3397, 1544, 519, 520, 651, 2524, 1077, 2071, 2190, 1458, 1181, 2375, 2194, 1851, 3632, 3544, 3297, 1861, 3406, 3407, 3187, 3408, 3847, 3986, 925, 2382, 3084, 3085, 740, 1980, 3641, 838, 929, 1043, 229, 1568, 3947, 3431, 3198, 3646, 3310, 1191, 529, 530, 744, 932, 1572, 1573, 2390, 1574, 2103, 2638, 3030, 982, 2467, 3314, 3438, 886, 3032, 2108, 2878, 3561, 3093, 3206, 3207, 3319, 1471, 3209, 3320, 3784, 3212, 3448, 3323, 3324]. **Generator** [1581, 3325, 3327, 2113, 1668, 3332, 3334, 3572, 427, 1048, 1142, 1312, 1783, 3454, 3224, 3336, 3337, 3456, 3227, 3338, 3229, 3458, 3341, 1255, 3342, 3368, 2742, 3343, 2557, 1399, 812, 3345, 1593, 3892, 3230, 3105, 1675, 3108, 813, 3467, 3468, 2011, 2012, 2312, 2888, 1482, 3922, 2229, 3711, 3923, 1051, 3351, 1485, 465, 3480, 2893, 3666, 1683, 3115, 2894, 3754, 3236, 3355, 3116, 3117, 3237, 3238, 3484, 3485, 1409, 674, 1098, 3046, 632, 3239, 3756, 3240, 1600, 1898, 3360, 1412, 545, 3241, 3492, 1268, 320, 3127, 676, 677, 1696, 2828, 3129, 2025, 3495, 1413, 2491, 3496, 1797]. **generator** [3367, 989, 2668, 3668, 470, 3499, 3956, 3957, 551, 3256, 1105, 3978, 3371, 3136, 3056, 908, 1502, 1617, 1713, 1217, 1276, 1340, 760, 3503, 2906, 3723, 474, 721, 3505, 1508, 2581, 3724, 1279, 2833, 1343, 2338, 3671, 2583, 3838, 2682, 2433, 1163, 379, 411, 3377, 1518, 771, 773, 3268, 3269, 1351, 2046, 2164, 3059, 3608, 3962, 3271, 2048, 2049, 3839, 3515, 3275, 3519, 1932, 2350, 1935, 2916, 1939, 2503, 3064, 3147, 3279, 3679, 1230, 1621, 224, 382, 2271, 1231, 2436, 154, 2351, 1941, 2170, 2482, 2509, 3523, 2771, 1286, 1118, 3387, 3281, 1440, 2175, 2176, 2275]. **generator** [3155, 3156, 3282, 3159, 2512, 3907, 1004, 1445, 1628, 2920, 598, 599, 248, 781, 1121, 1365, 3389, 2281, 3283, 3390, 1008, 3164, 3284, 3285, 782, 2063, 2851, 2852, 2925, 3004, 3005, 2520, 1542, 483, 2609, 3531, 3532, 2931, 1841, 2853, 3395, 3534, 3537, 3807, 2185, 2704, 1960, 600, 1634, 649, 3538, 3689, 3293, 1546, 1547, 2287, 2706, 3400, 2858, 3541, 1967, 3738, 2373, 3542, 792, 454, 830, 2715, 793, 1078, 3403, 921, 832, 3404, 833, 3298, 3405, 1010, 1245, 3409, 659, 3191, 3696, 3082, 2203, 3305, 1463, 162, 491, 525, 3418, 968, 1652, 3192, 3881, 2384, 2539, 2092, 1300, 800]. **generator** [618, 2540, 1981, 3421, 620, 367, 3548, 1654, 3023, 2874, 2875, 3025, 1656, 3645, 703, 3782, 3819, 3026, 707, 1769, 2389, 3433, 492, 3551, 3552, 1660, 2102, 2212, 2213, 2636, 2946, 3969, 1868, 3435, 843, 1869, 289, 2947, 2465, 2639, 2804, 2549, 208, 2806, 3091, 2949, 3933, 3560, 2730, 1776, 2731, 2732, 2733,

2808, 2950, 2951, 3318, 3442, 3443, 3208, 3444, 3445, 1194, 2396, 3322, 1779, 3950, 2476, 3098, 3326, 3449, 3650, 3217, 3218, 3452, 3567, 3568, 1585, 3036, 3220, 3335, 3222, 1784, 3574, 3225, 3457, 3039, 3226, 3890, 2740, 2887, 3576, 3460, 2959, 3974, 3706, 1256, 1592, 2309, 2960]. **generator** [1884, 3498, 3601, 2002, 1215, 459, 461, 3215, 3330]. **Generatoren** [1050, 1052]. **Generators** [1394, 2559, 2310, 2816, 293, 3975, 2122, 2225, 2963, 3346, 1479, 3658, 3826, 3233, 3110, 2658, 2314, 3112, 2745, 2967, 578, 2132, 3350, 3996, 3477, 1598, 2233, 3588, 2136, 900, 3863, 3937, 1408, 3357, 3715, 2825, 2970, 3118, 2140, 903, 904, 3119, 1206, 2415, 906, 3364, 2417, 1209, 1270, 1328, 3128, 2899, 403, 2574, 1698, 3250, 1496, 1910, 1333, 1701, 1911, 2242, 3131, 3133, 3599, 3600, 3869, 2669, 720, 3603, 1336, 2031, 2151, 2152, 1418, 1337, 1612, 3137, 2041, 3502, 3938, 2675, 2981, 3606, 763, 820, 995, 1028, 1110, 1509, 1222, 722, 1113, 1812, 1513, 2985, 304, 768]. **Generators** [769, 1815, 2759, 2760, 2909, 3607, 3672, 3980, 3675, 2047, 2050, 2165, 3060, 3144, 3873, 3061, 2266, 2591, 2056, 2914, 862, 3384, 3964, 279, 327, 3926, 3927, 2694, 2354, 2177, 3683, 2596, 558, 2597, 1538, 1236, 1369, 1370, 1733, 2183, 2283, 2359, 2365, 2442, 2443, 2444, 2515, 2516, 2517, 2604, 2700, 2701, 3003, 3070, 3072, 3286, 3529, 3735, 3929, 3997, 3803, 1732, 3290, 3170, 2702, 2928, 2929, 3173, 3624, 3396, 2366, 3994, 1633, 2453, 3688, 358, 3810, 3811, 1178, 1180, 1845, 1847, 2780, 2710, 3179, 1640, 2714, 3692, 1461, 1549, 1551, 1748, 1292, 2196, 2617, 2788, 1854, 2624]. **Generators** [2721, 3636, 736, 871, 610, 654, 794, 795, 3635, 1859, 3774, 3415, 1384, 3084, 1976, 1082, 1766, 3778, 3817, 419, 1467, 2799, 3425, 3426, 3427, 3428, 2098, 3195, 802, 2632, 3429, 3197, 1657, 3430, 2099, 3311, 1090, 2462, 2634, 3028, 2214, 569, 2470, 2472, 535, 2642, 2643, 2394, 2880, 1392, 1577, 1777, 2000, 1137, 3446, 572, 2811, 3099, 1664, 1665, 2220, 1877, 2814, 3821, 805, 1311, 2116, 2481, 2653, 427, 1669, 428, 494, 3705, 848, 1673, 2407, 1050, 1144, 1198, 1313, 1315, 1477, 3656, 2655, 1885, 2483, 3106, 3107, 3824, 1259, 1400, 1319, 3750, 498, 3657]. **generators** [2125, 3582, 2127, 1678, 3109, 1680, 2313, 3473, 3660, 3791, 2316, 3583, 3663, 1052, 3041, 3584, 3713, 3349, 3234, 2566, 2014, 3792, 3114, 1684, 1147, 1053, 1406, 2895, 3864, 1054, 2896, 1203, 2016, 1688, 2661, 2747, 2971, 3045, 2413, 905, 1491, 1691, 2897, 1205, 718, 3123, 3717, 1902, 3126, 3898, 3667, 3494, 1903, 2145, 2237, 546, 2238, 1907, 2024, 2146, 2239, 1023, 1908, 3249, 2327, 1332, 1497, 1498, 3251, 1415, 1494, 1495, 3497, 1604, 1702, 2750, 2901, 3132, 3252, 3834, 1334, 1416, 633, 2902, 3254, 3255, 1608, 406, 1417, 2753, 2245, 2246, 2495, 1501, 3258, 1419, 1420, 1504]. **generators** [1710, 1339, 2904, 1922, 1923, 2040, 2158, 2255, 2334, 2335, 2424, 2575, 2576, 1717, 1158, 1810, 856, 951, 952, 1219, 1220, 1341, 1811, 2043, 3837, 439, 1030, 275, 2339, 859, 997, 2908, 3058, 3838, 1348, 3725, 2910, 3511, 2761, 1721, 1816, 770, 476, 1227, 1282, 1350, 2585, 2684, 2763, 2764, 3142, 3674, 3381, 1519, 3382, 1430, 1818, 1819, 1928, 685, 3963, 3516, 3517, 1929, 2053, 2267, 2268, 2347, 2590, 3840, 1431, 2270, 3678, 775, 3939, 864, 3383, 3278, 1432, 1940, 3521, 1169, 3681, 1724, 2506, 2507, 2994, 1525, 356, 383, 2171, 2917, 1830]. **generators** [2174, 2273, 2274, 2352, 2353, 3524, 1002, 3157, 1442, 2844, 916,

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[3980, 3513, 3925, 2586, 2435, 3675, 1818, 1819, 1928, 2343, 2050, 2165, 3981, 3061, 1117, 3611, 1935, 3679, 1169, 3154, 1832, 2694, 2354, 866, 3941, 1444, 1726, 3526, 2597, 332, 3393, 3997, 1539, 1731, 1836, 2999, 1734, 3290, 648, 3806, 3533, 3396, 2366, 1543, 1962, 869, 3810, 3811, 519, 520, 650, 651, 870, 3627, 2071,

2072, 2073, 2710, 3008, 451, 2529, 2530, 2861, 1639, 3402, 3692, 3966, 605, 1291, 3630, 3769, 3770, 2715, 3632, 1294, 2196, 794, 795, 3635, 1557, 1860, 1972, 2084, 2085, 2198, 2456, 2623, 2718, 2937, 1559, 1757, 3774, 3412, 3637, 926, 3084].
Pseudorandom
[2723, 3640, 1131, 1980, 419, 1467, 2097, 1387, 2632, 3429, 1657, 3198, 881, 882, 1092, 883, 1991, 2465, 709, 3032, 2474, 2642, 2394, 1306, 1392, 1577, 1663, 1877, 2113, 3101, 3219, 2116, 2481, 2653, 1141, 494, 2957, 1881, 3227, 3822, 3787, 1673, 907, 2742, 1050, 1395, 2655, 1885, 1593, 3892, 1259, 1400, 1481, 2011, 498, 2312, 2127, 2888, 1482, 1401, 1680, 3660, 3791, 2966, 3475, 3583, 3661, 3713, 987, 2014, 1599, 2895, 3896, 1054, 1055, 1691, 3489, 401, 1793, 3795, 3955, 2664, 3667, 759, 2828, 1908, 469, 2025, 2327, 1699, 1700, 470, 3956, 471, 3254, 472, 1105, 3602].
pseudorandom [3978, 2246, 2495, 908, 1419, 1503, 1613, 1614, 1616, 1617, 1709, 1710, 1712, 1713, 1714, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 2034, 2035, 2037, 2038, 2154, 2155, 2156, 2248, 2250, 2252, 2328, 2329, 2330, 1338, 1340, 2253, 2333, 2671, 1923, 2040, 2158, 2255, 2334, 587, 588, 322, 3723, 1811, 2497, 1279, 1224, 1280, 1344, 2338, 2339, 859, 3838, 1348, 3725, 2910, 555, 379, 2834]. **pseudorandom**
[771, 185, 639, 3904, 2763, 2501, 2764, 3142, 3674, 3758, 3382, 3963, 3516, 3517, 2051, 2053, 2265, 2267, 2268, 2345, 478, 2590, 2270, 864, 1432, 1940, 382, 2507, 2994, 414, 824, 1525, 1941, 2170, 356, 2171, 1286, 2917, 1830, 1361, 2175, 2176, 2512, 1442, 3908, 1235, 3163, 1445, 2440, 3982, 598, 599, 1365, 2922, 2063, 3288, 2284, 1177, 1290, 2608, 1542, 483, 868, 3532, 3175, 3737, 3807, 3911, 3931, 3176, 1372, 1454, 1740, 2068, 1848, 1967, 1968, 2448, 2527, 2528, 2372, 2374, 2783, 3009, 3075, 1850, 3812, 2785, 3077, 3932, 1550, 3633, 3299, 1010, 3814, 2197, 655]. **pseudorandom**
[875, 1039, 1128, 1244, 1245, 1297, 1378, 1379, 1381, 1462, 1556, 1558, 1754, 1755, 1857, 1971, 2083, 2533, 2534, 2535, 2620, 2621, 2622, 2720, 2938, 3188, 1758, 3410, 3411, 3413, 616, 3696, 3849, 3775, 1651, 525, 2091, 836, 968, 458, 1981, 1132, 1654, 1469, 1087, 1565, 1042, 877, 3988, 3645, 2543, 3088, 705, 2389, 3433, 2211, 2946, 1391, 3436, 3554, 3989, 2947, 624, 983, 3747, 3949, 3970, 3933, 1775, 1307, 1999, 2954, 1779, 2648, 936, 3650, 3216, 3217, 3452, 2112, 493, 3934, 710, 2221, 1587, 2117, 2118, 2223]. **pseudorandom**
[2401, 2480, 2005, 2958, 3102, 2740, 233, 809, 3974, 1592, 2008, 3498, 3331].
pseudorandom-number [2655]. **Pseudorandomness** [2962, 2227, 3358, 3593, 3958, 723, 2681, 2500, 3872, 3615, 3905, 2508, 2593, 2689, 2595, 2605, 2186, 3398, 2532, 1645, 2650, 3918, 2562, 2133, 2432, 3877, 3100, 2738, 2124].
pseudozufallsvektoren [1350]. **Pseudozufallszahlenfolgen** [622].
psevdosluchainykh [351]. **PSI** [1425]. **PUB** [1861]. **Public**
[2320, 912, 2505, 1973, 2541, 3276, 2440, 3844]. **Public-Key** [912, 2505, 2541].
Publications [262, 394]. **Publicly** [3795, 3129]. **Published** [3685]. **PUF**
[3977, 3987, 3968, 3853, 3884]. **PUF-TRNG** [3987]. **PUFs** [3917]. **Pulse**
[3504, 1828, 676, 3505]. **Pulse-Excited** [3504]. **Pulse/Data** [1828]. **Pulses**
[519, 520, 3335]. **punched** [36]. **punctured** [3772]. **Pure** [3846]. **Purpose**
[1081]. **Purposes** [3935, 2929]. **PVT** [3438]. **PVT-variation** [3438]. **pW**

[3367]. **pyramids** [1459]. **Python** [3733, 3623, 2369, 2370, 4206].

Q.R.N.G. [3470]. **QRNG** [3995]. **Qs** [3610]. **Quadratic** [2033, 2037, 2252, 658, 2088, 1650, 842, 1204, 1614, 1714, 1917, 2034, 2330, 1277, 2253, 1066, 1123, 971]. **Quadrature** [915, 786, 732, 1038, 396, 2502]. **Quality** [2135, 3494, 1825, 3927, 2690, 3762, 2071, 1090, 3096, 3212, 2957, 3824, 3234, 3351, 1908, 2576, 1937, 1941, 2170, 3164, 3284, 1960, 3538, 1967, 607, 2463, 2464, 2475, 2552, 2958, 2960]. **quanta** [1214]. **Quantendynamik** [11]. **Quantifiers** [3251]. **Quantis** [3649]. **Quantitative** [3112, 739, 4182, 3738]. **quantity** [227]. **Quantum** [3464, 3465, 3578, 2818, 3469, 3488, 3120, 3722, 3375, 3840, 3926, 1623, 3156, 3389, 3619, 3688, 3626, 3813, 3986, 1984, 3548, 3744, 530, 2639, 3091, 3559, 3099, 3335, 3952, 3343, 3579, 3359, 3668, 377, 3136, 3670, 3838, 3383, 3385, 2509, 3523, 3155, 11, 3631, 3694, 3405, 3422, 3988, 3435, 2804, 2549, 3316, 3562, 3322, 3950, 3326, 3651, 3568, 3036, 3333]. **Quantum-Mechanical** [530]. **Quantum-Safe** [3986]. **Quantumlike** [704]. **quark** [4111]. **'quasi** [2577, 902, 583, 3372, 2424, 116, 4171, 4178, 2778, 2080, 873, 1756, 4121, 4160, 1466, 2205, 1247, 1572, 1870, 1575, 3746, 1993, 2395, 315, 2884, 1310, 464, 1597, 2232, 901, 4183, 3870, 4145, 1351, 221, 222, 324, 1820, 2344, 4117, 2502, 2271, 2272, 2599, 2699, 3391, 2606, 1550, 3880, 4101, 4128, 4150, 2868, 3700, 1660, 1990, 1671, 495, 1256, 2849, 3165, 99]. **Quasi-** [1466]. **Quasi-Convergent** [315]. **Quasi-Monte** [4171, 4178, 4121, 4160, 1870, 3372, 2424, 2080, 873, 1756, 2205, 1575, 3746, 2395, 2884, 464, 4183, 4145, 4101, 4128, 4150, 901, 1820, 2502, 2699, 3391, 2606, 3880, 2868, 495, 2849, 3165]. **Quasi-Monte-Carlo** [99]. **Quasi-Random** [902, 1247, 1993, 1310, 583, 116, 1572, 1597, 2232, 3870, 1351, 221, 222, 324, 2344, 4117, 2272, 2599, 1550, 3700, 1660, 1990, 1671, 1256]. **quasi-white** [2271]. **quasicrystals** [2684]. **Quasigroup** [3076]. **Quasigroups** [3510]. **Quasirandom** [2560, 1324, 2140, 3490, 1222, 2200, 2871, 1773, 3243, 2771, 1371, 1857, 1860, 1871, 2104, 574]. **Quaternion** [3450]. **quatrième** [4004]. **Quebec** [4091, 4143]. **Query** [449]. **Quest** [1347, 3471]. **questions** [85]. **Queue** [988, 1955, 1956, 1020, 2756, 963, 3329]. **Queueing** [1402, 1241]. **Queuing** [1484, 620, 802]. **Quick** [2031]. **QuickCheck** [3878]. **Quickly** [1926]. **Quicksort** [2493]. **Quinary** [925]. **Quincunx** [3420]. **Quintessential** [3420]. **quintic** [3056]. **quotient** [1239]. **quotients** [3602, 1242].

R [2137, 3936, 3718, 3169, 3291]. **R16** [806]. **R18** [769]. **R24** [862]. **R52** [1108]. **R53** [1109]. **R57** [1167]. **R58** [1181]. **Rabin** [1318]. **Racah** [424]. **Rackoff** [1850]. **Radial** [348]. **Radiation** [338, 11]. **Radical** [324]. **Radical-inverse** [324]. **radio** [497, 481]. **radioactive** [2885]. **Radisson** [4045]. **Radix** [2171]. **Radix-** [2171]. **RAGE** [3085]. **RAGuard** [3920]. **rake** [3275]. **Raleigh** [4081]. **Ralley** [1079]. **Ramage** [2881]. **Raman** [3488, 3722]. **RAMs** [3271]. **Ramsey** [2397]. **RAN1** [2229, 2312]. **Rand** [1299, 71, 89, 3221, 1364]. **RandNLA** [3798]. **Random**

[3464, 3465, 3578, 1394, 3344, 1257, 1316, 496, 811, 1145, 1398, 2310, 1146, 3466, 577, 398, 293, 3975, 2122, 2225, 3708, 1479, 1677, 1200, 103, 108, 109, 110, 111, 123, 124, 125, 126, 891, 2484, 2818, 3469, 3709, 3710, 3658, 3893, 3936, 541, 752, 753, 814, 893, 894, 895, 896, 942, 3109, 3790, 1320, 3827, 2563, 2658, 12, 3111, 2128, 2315, 3112, 2745, 2891, 2565, 2967, 3828, 3829, 295, 267, 349, 2132, 3350, 3351, 3996, 3477, 2820, 3042, 3478, 3585, 754, 1322, 3479, 400, 499, 580, 1486, 434, 2231, 2409, 180, 816, 945, 1598, 1684]. **Random** [2135, 2233, 2319, 2411, 2136, 1487, 1147, 900, 1405, 543, 3755, 2320, 3714, 1022, 1096, 1202, 3484, 181, 237, 3356, 1408, 3486, 2321, 2660, 2322, 2747, 2825, 2970, 3118, 902, 319, 1410, 1099, 2826, 3487, 2141, 2142, 1791, 3119, 1491, 3488, 239, 240, 501, 1411, 1895, 2897, 1693, 1694, 2236, 1492, 851, 183, 3593, 757, 402, 758, 3491, 1206, 584, 3361, 3976, 2415, 2569, 3125, 3242, 3363, 3594, 3954, 3992, 2324, 3364, 3493, 3365, 3595, 376, 2570, 3596, 320, 2022, 2416, 1269, 1208, 1601, 2237, 2325, 2417, 3597, 3246, 1270, 3128, 1904, 241, 216, 403, 468, 3049, 547, 2749]. **Random** [1272, 1330, 2240, 2241, 1698, 2026, 947, 1496, 1910, 1210, 1494, 2028, 1333, 1701, 1911, 2492, 3133, 3599, 3869, 3366, 1102, 1211, 1212, 1416, 1606, 1607, 1705, 1798, 2147, 2244, 2751, 2974, 3253, 3719, 1273, 2752, 550, 634, 30, 2148, 271, 2149, 2902, 3957, 3052, 3053, 3054, 3134, 3257, 3501, 720, 1060, 1153, 1335, 2030, 2670, 1609, 2419, 1336, 2031, 2151, 2152, 1501, 1215, 1418, 1337, 1708, 2420, 2331, 3722, 2421, 2422, 2755, 3502, 3504, 3960, 3139, 1506, 2337, 2978, 3938, 1156, 1107, 1108, 1109, 2674, 2979, 3140, 2980, 2675, 298, 3606, 1028, 1110, 1509, 1422]. **Random** [378, 3506, 2582, 439, 3902, 300, 350, 722, 553, 1113, 857, 1511, 505, 1424, 1512, 3374, 3375, 49, 1924, 1114, 275, 1812, 2679, 594, 323, 408, 861, 2907, 1513, 2341, 2757, 3266, 303, 823, 1345, 2985, 3979, 3509, 766, 1720, 768, 769, 1162, 1226, 1517, 3376, 2760, 637, 682, 3903, 3924, 3961, 2262, 200, 243, 244, 144, 683, 444, 3512, 3673, 1115, 1429, 3141, 3378, 3379, 3270, 640, 412, 507, 2342, 2587, 2988, 1283, 3272, 65, 66, 74, 325, 353, 354, 3676, 556, 684, 2989, 380, 3060, 3144, 3760, 1354, 3518, 595, 911, 774, 2266, 4117, 2269]. **Random** [1723, 2589, 1431, 2056, 245, 1822, 1933, 1934, 3761, 3678, 862, 3939, 2350, 3277, 3146, 2993, 3383, 1824, 1825, 1938, 2841, 3614, 3384, 3148, 3730, 3964, 279, 327, 3926, 596, 202, 1069, 2770, 154, 1524, 1622, 1357, 355, 3927, 2690, 329, 330, 383, 2691, 2692, 2842, 3762, 155, 2172, 2693, 2437, 118, 2511, 1072, 1359, 3616, 3617, 515, 1530, 1625, 2352, 1948, 3158, 3731, 1073, 2918, 1441, 1531, 865, 1532, 1626, 2177, 2919, 1833, 3683, 3160, 2596, 776, 825, 867, 1535, 729, 917, 1362, 1727, 3525, 2438, 225, 516, 644, 1729, 1447, 1536, 3733, 2276, 1537, 558, 645, 1005]. **Random** [1120, 480, 1236, 1288, 1540, 1631, 1733, 2183, 2283, 2359, 2361, 2362, 2363, 2365, 2443, 2444, 2515, 2601, 2602, 2603, 2604, 2700, 2701, 2848, 2849, 3001, 3003, 3070, 3072, 3165, 3286, 3528, 3529, 3620, 3735, 3763, 3929, 3943, 3619, 827, 1008, 3734, 3803, 3285, 1837, 1074, 1732, 646, 919, 1839, 3166, 3289, 2065, 1175, 3168, 3909, 3170, 1735, 1736, 2702, 3292, 2611, 3172, 3173, 3624, 2930, 3875, 3736, 249, 2614, 3687, 2776, 384, 3994, 691, 2367, 2453, 3688, 2778, 309, 358, 1544, 1373, 2067, 3809, 2368, 3625, 3626, 2188, 3540, 97, 254, 280, 281, 282, 312, 337, 340]. **Random**

[449, 450, 522, 559, 692, 693, 788, 789, 966, 1075, 1076, 1178, 1180, 1456, 1637, 1844, 1845, 1846, 1847, 2069, 2070, 2447, 2524, 2780, 2857, 386, 604, 3629, 2190, 3179, 2192, 1640, 2711, 2714, 1641, 1458, 1181, 1461, 1038, 1549, 2076, 791, 2194, 389, 2077, 831, 1851, 560, 1127, 1292, 3543, 3739, 2078, 1182, 1293, 1376, 3079, 2377, 131, 416, 187, 456, 1079, 3184, 524, 390, 3297, 2788, 2537, 2624, 2721, 3636, 3815, 3080, 608, 736, 871, 2455, 417, 2290, 3406, 3407, 654, 2618, 2619, 1855, 2082, 3187, 613, 873, 1756, 1859, 3847, 1759, 2292].
Random
[967, 2202, 3302, 343, 1561, 658, 1648, 3191, 206, 697, 3986, 925, 2538, 2869, 3415, 1384, 3416, 3639, 2382, 2089, 835, 1, 3944, 1186, 1464, 1762, 3085, 1976, 1081, 1652, 2457, 969, 2204, 3306, 2796, 1978, 2094, 1187, 361, 391, 457, 1979, 1082, 740, 365, 526, 1466, 1766, 3946, 3914, 3422, 3547, 3641, 148, 392, 2630, 700, 527, 3778, 3817, 619, 702, 1984, 2871, 528, 838, 3308, 1767, 55, 57, 2799, 262, 1986, 1043, 3425, 3426, 3427, 3428, 1088, 368, 2098, 229, 3195, 1567, 930, 1012, 802, 1568, 2632, 3429, 3197, 3947, 1865, 2461, 3698, 3430, 3431].
Random [3646, 2944, 2099, 3883, 3744, 1247, 3310, 3311, 1569, 706, 1090, 1191, 529, 369, 287, 2462, 2634, 978, 979, 1014, 1044, 1091, 530, 2876, 3200, 744, 623, 932, 3028, 207, 420, 421, 1573, 1192, 371, 745, 2390, 1574, 2103, 3437, 3030, 982, 2214, 533, 569, 2948, 461, 1871, 2467, 626, 423, 2470, 2472, 627, 885, 1250, 1993, 149, 394, 395, 534, 3314, 3438, 886, 1304, 208, 346, 535, 3205, 425, 2303, 536, 3092, 2550, 3561, 628, 3093, 3853, 3884, 2643, 844, 887, 888, 984, 2304, 2305, 2393, 2645, 3206, 3207, 2880, 136, 373, 3319, 2953]. **Random** [1471, 1472, 2000, 3209, 3320, 1137, 3096, 3210, 3446, 3784, 1579, 9, 107, 210, 3212, 3448, 168, 3323, 3324, 2882, 572, 666, 1046, 1581, 2397, 2811, 315, 3099, 1664, 3325, 3214, 3215, 1665, 2219, 2220, 3327, 1047, 3450, 1093, 426, 2113, 2814, 1140, 1195, 1310, 3566, 537, 538, 1584, 2553, 1196, 3330, 1667, 847, 712, 805, 1668, 938, 2222, 3332, 1311, 2479, 3334, 3572, 427, 428, 889, 1048, 1142, 1312, 1783, 3454, 3223, 749, 808, 70, 3224, 3336, 2405, 1253, 1785, 1590, 2307, 266, 940, 2654, 429, 3705, 3337, 3456, 3575, 3654, 3338, 1476, 1672, 3229, 3458, 848].
Random
[3341, 1255, 3952, 3342, 2556, 2407, 3796, 405, 3368, 937, 3343, 3707, 3891, 2557, 430, 1144, 1198, 1313, 1314, 1315, 1477, 3656, 2558, 2559, 3789, 630, 631, 1397, 316, 1399, 812, 714, 3345, 3991, 1258, 3858, 3106, 3107, 1886, 1478, 1319, 1675, 3108, 813, 3467, 3468, 1594, 1676, 3750, 751, 1260, 1786, 2123, 497, 3657, 2012, 2125, 3860, 3582, 1678, 1483, 897, 1019, 1679, 3232, 3233, 432, 433, 3922, 2313, 898, 3110, 3473, 1890, 1681, 2229, 1321, 2889, 2316, 3711, 3752, 3923, 3476, 3662, 3663, 3712, 1261, 1891, 2130, 1051, 1052, 3041, 3584, 3349, 150, 3234].
random
[579, 3113, 2566, 2567, 3792, 1485, 1596, 1682, 465, 672, 2746, 3480, 3114, 318, 2892, 2893, 3665, 3666, 1683, 3115, 1404, 2894, 1597, 2232, 2410, 3588, 3589, 3831, 3862, 850, 1488, 715, 581, 2137, 3754, 1489, 2823, 3235, 3236, 3355, 1406, 500, 2138, 3116, 3117, 3237, 3238, 1148, 755, 235, 3485, 817, 194, 1892, 1203, 2016, 182, 1490, 238, 674, 1688, 2661, 2971, 3045, 1690, 1098, 582, 71, 89, 946, 1204, 3046, 3716, 2413, 2748, 632, 905, 1692, 104, 3239, 3756, 195, 1205, 502, 583,

3832, 2568, 1266, 1600, 1898, 3360, 1412, 718, 545, 675, 1058, 3123, 3241, 3492].
random
[3717, 3718, 3047, 1901, 1902, 3126, 1268, 3127, 37, 3898, 3757, 214, 215, 3494, 1903, 2145, 546, 676, 3247, 677, 1696, 1271, 1603, 2023, 2238, 3129, 2024, 2146, 2239, 2326, 2490, 2973, 1023, 404, 3248, 3249, 3495, 1329, 1413, 1493, 1414, 3250, 3496, 1331, 217, 297, 1332, 1497, 1498, 1797, 3251, 3367, 989, 1415, 1495, 3497, 1604, 1605, 1702, 1703, 2668, 2750, 2829, 3668, 3834, 1334, 3499, 990, 991, 1024, 1059, 1101, 1103, 1104, 1213, 1704, 1799, 1912, 633, 992, 438, 549, 585, 680, 43, 3255, 1608, 3051, 1500, 3256, 3369, 406, 3669, 994, 1801, 113, 3371].
random [3055, 1417, 2753, 377, 2245, 1026, 3136, 3056, 218, 3258, 681, 1420, 2249, 1217, 1276, 1339, 586, 2904, 2754, 2423, 2575, 2576, 1061, 3503, 3870, 3138, 2831, 1421, 2906, 2425, 153, 1278, 2832, 721, 1157, 2159, 2426, 2427, 2428, 2579, 1717, 3505, 141, 1158, 1508, 2160, 2581, 1810, 1219, 1220, 1341, 242, 2043, 1221, 3837, 48, 60, 91, 92, 591, 592, 273, 184, 274, 1112, 764, 1223, 724, 3724, 765, 1064, 1343, 1030, 2982, 3671, 822, 2430, 2498, 997, 2583, 3838, 116, 142, 2682, 767, 199, 219, 2433, 174, 475, 909, 954, 2987, 1163]. **random**
[411, 2761, 3377, 2762, 1721, 1518, 1816, 443, 1281, 770, 772, 1000, 476, 1227, 1282, 1350, 83, 93, 477, 773, 2585, 3268, 3269, 1351, 3380, 3799, 2046, 2164, 3381, 3271, 1519, 3609, 221, 222, 324, 1430, 75, 1116, 2048, 2049, 3839, 3515, 685, 1929, 3062, 3275, 955, 3519, 2344, 2347, 1066, 1932, 2054, 3840, 381, 1520, 913, 2767, 2915, 3677, 775, 305, 686, 1936, 1068, 2916, 1521, 1823, 1826, 1937, 2504, 2769, 3728, 1433, 67, 76, 3613, 1229, 3729, 3147, 2592, 3279, 3940, 1230, 1621, 3521, 224, 3522, 1001, 3681, 1435, 1436, 1724, 2506, 3149]. **random**
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[2599, 2600, 2698, 2846, 2923, 2924, 3069, 3071, 3843, 3283, 1007, 1174, 3390, 1122, 3164, 3284, 2441, 1952, 1953, 782, 481, 2850, 2852, 3005, 3167, 1958, 3764, 3621, 2607, 2520, 647, 2610, 3291, 3530, 2927, 3531, 3623, 3993, 2612, 3686, 1452, 2931, 3965, 1841, 518, 3394, 3074, 3395, 3534, 3537, 1738, 3765, 3808, 2777, 2932, 1237, 3397, 1238, 1633, 2187, 1960, 158, 3399, 334, 600, 18, 2705, 1634, 1635, 1741, 1843, 1963, 649, 1239, 3539, 3689, 3767, 3768, 251, 2522, 3293, 3294, 415, 3627, 226, 252, 253, 255, 283, 311, 336, 385, 447, 448, 485, 521, 652, 1124, 1179].
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