

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

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

Tel: +1 801 581 5254  
FAX: +1 801 581 4148

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

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## Title word cross-reference

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

$(0, 1)$  [1077].  $(0, s)$  [2578, 2979].  $(a^n - 1)/(a - 1)$  [939].  $(j, \epsilon)$  [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... [2553]. 10,000 [285]. **\$10.00** [170].  $10^{2857}$  [2524].  $10^{435}$  [2078].  $1200\mu$  [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].  $2^\alpha$  [1502, 2275].  $2^\beta$  [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]. mod1 [301, 302, 407, 656, 739, 661]. modn [2241].  $C^\infty$  [1285].  $C \exp(-\lambda|x|^\nu)$  [1490].  $\chi^2$  [349, 947, 1107, 1108, 1109, 6, 7].  $D$  [2414, 1837, 3026, 2115].  $d^2$  [93].  $e$  [81, 1528, 87, 372].  $\epsilon$  [1942].  $F_2$  [3060, 3070, 3286, 3873].  $F_{2^w}$  [2869].  $G$  [452, 453].  $\Gamma$  [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].  $\lambda$  [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]. GF( $2^m$ ) [1587].  $\mu$  [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].  $\pi$  [2902, 81, 1528, 87, 285, 288, 2955].  $\pm 1$  [664].  $\pm 2^{k_1} \pm 2^{k_2}$  [2308].  $\pm 2^{p_1} \pm 2^{p_2}$  [2647].  $q$  [2542].  $S$  [1027, 1900].  $\sigma$  [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**

[2089]. **adjustable** [3239]. **Administration** [4103]. **Admissible** [3081]. **Advanced** [1479, 1951, 4017, 4185, 4135, 2469, 2547]. **Advances** [4029, 4047, 4065, 1091, 4115, 4127, 2699, 4086, 2720, 4037, 4039, 4092, 4166, 4050]. **Advancing** [4175]. **Adventures** [3955, 4111]. **adversaries** [3651]. **advised** [3822]. **aegis** [4011]. **AES** [2765, 2508, 2593, 2918]. **Affairs** [4011]. **Affects** [3943, 3494]. **Affine** [3805, 3904, 2543]. **Against** [2899, 3352, 3833, 1353, 3192, 3651, 3822, 3920]. **Age** [2749]. **Agricultural** [24, 299, 47, 73, 114, 115, 171, 172]. **Ahead** [3060, 3144, 3145, 3337]. **Ahrens** [892]. **aid** [2100]. **Aimed** [3030]. **Air** [4012, 1909]. **AIS** [2596, 2462]. **AIX** [2800]. **Akima** [773]. **al.** [917]. **Alabama** [4070]. **Alamos** [3726]. **Alberta** [4017]. **Alea** [3472]. **aléatoire** [1892, 322, 801]. **aléatoires** [3996, 2823, 759, 2184, 284, 343, 2538, 1580]. **aleatorios** [134]. **Alexandria** [4157]. **Alfred** [3274]. **Algebra** [2019, 3244, 1858, 3653, 4071, 3798, 4125, 424, 4071]. **Algebraic** [435, 4083, 3725, 1529, 4100, 2378, 2379, 526, 3978, 4125, 1360, 121, 662, 99, 286, 3889]. **Algebraic-Geometry** [2378]. **Algorithm** [3936, 753, 814, 2486, 2968, 899, 674, 1789, 544, 501, 757, 678, 1904, 1273, 2426, 2427, 2428, 2579, 105, 3145, 511, 1167, 2768, 1067, 596, 915, 1287, 3731, 516, 644, 27, 648, 2927, 3172, 3543, 1293, 1376, 1644, 1560, 2088, 835, 361, 2629, 618, 367, 529, 1988, 1989, 3437, 1873, 1995, 3854, 2880, 1046, 1581, 2219, 1047, 2651, 1879, 1670, 2957, 3789, 1886, 1888, 3351, 3113, 3043, 3665, 850, 1262, 1490, 756, 2412, 2488, 2897, 1103, 3835, 503, 3959, 552, 1155, 3258, 1278, 2159, 2756, 2584, 2911, 3516, 1165, 1119, 3162, 2921, 1449, 3930, 3965, 1738, 3812, 2864, 793]. **algorithm** [2616, 1185, 1298, 2867, 3697, 3849, 2381, 1080, 3851, 1085, 701, 927, 621, 3779, 1570, 1867, 3551, 2105, 3441, 1779, 1780, 1308, 2398, 2399, 1666, 2119, 2958, 2886, 3973, 750, 3655, 804, 2743, 3936, 896, 815, 268, 269, 434, 1324, 1893, 716, 947, 504, 321, 950, 1107, 1222, 303, 768, 998, 324, 2343, 380, 1167, 862, 1067, 2503, 2771, 1358, 1437, 479, 3734, 308, 3804, 1735, 2527, 2528, 1181, 697, 362, 363, 364, 391, 314, 623, 842, 459, 461, 425, 628, 3854, 806, 1048, 1142, 3340, 3461, 1255]. **Algorithmic** [3370, 3901, 3933, 1747, 568, 1583, 4116]. **algorithmische** [568]. **algorithmischer** [1747]. **Algorithms** [4090, 894, 896, 3827, 815, 1788, 2231, 1263, 2140, 716, 3130, 947, 1606, 504, 1106, 950, 1107, 1108, 1109, 3260, 1029, 768, 769, 998, 1927, 2990, 4126, 1166, 2591, 2685, 1167, 862, 643, 687, 1067, 1827, 1832, 2918, 2356, 2513, 2178, 1363, 2180, 1959, 2778, 486, 1181, 2196, 1302, 2207, 2210, 1770, 842, 2469, 4142, 4079, 4020, 806, 1048, 1142, 1255, 1674, 892, 3712, 2566, 1684, 3044, 2138, 1214, 2904, 2161, 2258, 4125, 1164, 3609, 2166, 1724, 1361, 1831, 1533, 1534, 3983, 2610, 1739, 3689, 1750, 3634, 3014, 1300, 1864, 2460, 3988, 3745, 1991, 1992]. **Algorithms** [4126]. **Alias** [2208, 2948, 1396, 1000, 918]. **alignments** [1886]. **All-Digital** [3314, 3438]. **All-Optical** [3626]. **alla** [469]. **Alley** [1988, 1873, 1995]. **Allocation** [643, 687, 729, 2663, 3388]. **Almost** [2977, 3611, 1478, 3949]. **Along** [3879]. **Alternating** [3084]. **Alternative** [3502, 823, 1938, 2610, 2793]. **Alternatives** [2453, 1223, 164, 50]. **Alto**

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[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,

1726, 3163, 2440, 3526, 1730, 2921, 2998, 3068, 826, 1367, 1368, 1450, 1632, 1838, 2179, 2181, 2182, 2184, 2279, 2280, 2360, 2362, 2363, 2445, 2446, 2600, 2602, 2697, 2773, 2846, 2923, 3069, 3071, 3393, 1539, 3842, 1122, 2922, 3167, 3288, 2284, 1734, 3168, 1177, 1290, 3291, 868, 2612, 3875, 3394, 3074, 3931, 3176, 1238, 2187, 2704, 1963, 2068, 3625, 3294, 3627, 447, 448, 485, 521, 1636, 1742, 1964, 1966, 2781, 2708, 3177, 3912, 2371, 2615, 2859, 2860, 3628, 3691, 1744, 1969, 2372, 2374, 2783, 3009, 3075]. **generators** [1745, 1850, 790, 3181, 3077, 3402, 2786, 2865, 1747, 1643, 455, 3878, 3694, 3296, 2079, 3772, 1750, 609, 3081, 3300, 2197, 655, 1128, 1297, 1558, 2535, 2620, 2720, 1559, 1757, 1758, 3190, 2867, 3410, 3411, 616, 2538, 2869, 2939, 3018, 3414, 1651, 1130, 1299, 1385, 1464, 1760, 1761, 2091, 1386, 2094, 3419, 3019, 1132, 2097, 839, 2385, 3882, 1087, 1565, 877, 1088, 3818, 3783, 2297, 2101, 1571, 1867, 1390, 1470, 1771, 2877, 3701, 2635, 2727, 1772, 2464, 3436, 3989, 3852, 263, 2215, 1991, 1773, 3557, 2805, 2473, 3747, 3949, 3970, 1305, 3559, 2640, 2641]. **generators** [2474, 3316, 2879, 2304, 2646, 2809, 2952, 3033, 3034, 3094, 3441, 3563, 3564, 1661, 1875, 1999, 3095, 3211, 3703, 3748, 3447, 2954, 2647, 2477, 2648, 1663, 985, 2812, 3951, 2736, 2813, 3451, 1093, 2112, 1094, 3856, 3934, 2221, 1878, 3569, 1782, 2652, 2117, 2223, 2005, 462, 3453, 2308, 3038, 3455, 3822, 2741, 3339, 3340, 3787, 3462, 3463, 2321, 3166, 3289, 399, 514, 482]. **generators-part** [2640]. **Generazione** [987, 490]. **Genetic** [2566, 2591, 2685, 2686, 643, 687, 2999, 2778, 4142, 2880, 2957, 2138, 2898, 2708, 3634, 4155]. **Gentle** [3027, 2487, 2862]. **Genuine** [3646, 2885]. **Geographic** [2321]. **Geometric** [3583, 766, 1946, 2196, 2812, 2775, 1750, 2649]. **Geometrical** [3328, 2066]. **Geometrically** [2842, 2762, 2777]. **Geometry** [2378, 2379, 1059, 3254, 1950]. **geophysics** [1583]. **George** [4175, 262]. **Georgia** [4123, 4110, 4038]. **Germain** [2859]. **German** [1050, 631, 2961, 1052, 438, 471, 1500, 2678, 1030, 2430, 1227, 1350, 638, 639, 221, 246, 278, 1001, 331, 11, 33, 1747, 738, 665, 622, 531, 532, 568, 5, 1883, 890, 176]. **Germany** [4185]. **Getting** [3327, 2480]. **GFSR** [2048, 1399, 1423, 2049, 1744, 1969, 2377, 1306, 1307, 1392, 1874, 1998]. **GI** [1956]. **GI/G/1** [1956]. **Gibbs** [1794, 2028, 2045, 737]. **gigahertz** [1482]. **Gill** [506]. **Giovanni** [3685]. **Gitterstruktur** [1050]. **Given** [1100, 1211, 1606, 1526, 1, 3752, 151, 991, 260, 2301, 1666]. **giving** [141]. **Glasgow** [4107]. **gleichverteilte** [1052]. **gleichverteilten** [631]. **gleichverteilter** [1227, 1350]. **Gleichverteilung** [5, 246]. **Gleitkommadarstellung** [665]. **glimpse** [778]. **Global** [3104, 732, 2199, 1356, 2200]. **GLP** [2672]. **Gmunden** [4085]. **GMW** [1134]. **GNU** [3262]. **Gnumeric** [2863]. **goddess** [2523]. **goddess-of-fit** [2523]. **goes** [3082, 3424]. **Goldreich** [3978]. **Good** [2310, 1716, 507, 1820, 2266, 2347, 2591, 2995, 2696, 2360, 2443, 2603, 2791, 1384, 740, 929, 1043, 3089, 3090, 3203, 2880, 1782, 397, 463, 1898, 2906, 1717, 1816, 2992, 1621, 2273, 689, 727, 2921, 1367, 1838, 2445, 1008, 2850, 607, 872, 2626, 2094, 3424, 1867, 3970, 3563, 3564, 2956, 3037]. **Goodness**

[4043, 595, 2933, 837, 69, 88, 102, 3123, 1161, 1065, 1172, 98, 624, 19].  
**Goodness-of-Fit** [2933, 837, 4043, 3123, 1161, 1065, 1172, 624]. **Gossip**  
 [3759]. **Gowers** [3533]. **Gozd** [4109]. **GP** [4142, 3639]. **GP-2001** [4142].  
**GP-GPU** [3639]. **GPGPU** [3645]. **GPU** [3750, 3474, 3662, 3712, 3671, 3376,  
 3758, 4191, 4201, 3907, 3625, 4172, 3417, 3639, 3545, 3461]. **GPU-based**  
 [3907]. **GPU-enabled** [3417]. **GPUs** [3712, 3491, 3763, 3882]. **Gradient**  
 [3276, 1541]. **Graduate** [4128]. **Grand** [4120]. **Grande** [2417]. **Granular**  
 [3915]. **Graph** [2980, 517, 1900, 2904, 2042, 2832, 1943, 1996]. **Graphic**  
 [3432, 3699, 3351]. **Graphical** [1469, 1659, 1775]. **Graphics**  
 [3497, 3417, 3349, 3665, 3164, 3633, 1465, 1653, 3462, 3577]. **Graphs**  
 [3938, 1888, 2167]. **gray** [1707]. **gray-scale** [1707]. **Greater** [896, 2208, 469].  
**Greatest** [511, 1287, 1119, 1085, 750]. **Greece** [4167]. **Greedy** [3439].  
**Green** [1303]. **grenades** [2355]. **Grenoble** [4021]. **gretl** [3654]. **Grid**  
 [1212, 2855, 3228]. **GRNG** [3784]. **Group** [1978, 778, 3526, 3088].  
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 [1904, 2680, 2605, 2014, 1520, 3627]. **growth** [3410]. **Guangdong** [4192].  
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 [2326, 3100]. **Guide**  
 [3581, 1056, 1264, 2604, 2701, 2619, 1015, 2181, 3072, 2618]. **Guideline**  
 [3941]. **Guidelines** [1720, 1570]. **Guitar** [2749].

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**Håstad** [3886]. **Hadamard** [3704, 3784]. **Halcomb** [170]. **Half-toning**  
 [3501]. **halls** [3019]. **Halton** [3259, 3302, 3199]. **Hamburg** [4011].  
**Hamiltonian** [2969]. **Hammersley** [907]. **Hamming** [1595, 2216]. **hand**  
 [2355]. **Handbook** [4115, 3830, 4176, 4149, 4200, 2709, 2288, 1079, 292, 994].  
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 3260, 3608, 3981, 2597, 3166, 3809, 1648, 2203, 3431, 3320, 3210, 3998, 3920,  
 3368, 2557, 1051, 2581, 3268, 3141, 3282, 4138, 2920, 2851, 2925, 3004, 3005,  
 3623, 3686, 2931, 3874, 3538, 3539, 2708, 454, 1562, 3745, 2959, 3601, 3289].  
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**HAVEGE** [2802]. **Having** [1839, 451, 954, 255]. **Hawaii** [4125]. **Heads**  
 [2820]. **heap** [1899]. **heap-ordered** [1899]. **heat** [2845]. **Heavy** [3329, 3483].  
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1826, 1533, 1626, 1537, 1452, 2185, 519, 520, 1240, 1386, 2542, 529, 1014, 3437, 459, 884, 461]. **Poisson-Truncated** [1537]. **poker** [414]. **Poland** [4114]. **Polar** [1890, 281]. **policies** [2572]. **policy** [3066]. **Poly** [3826]. **Poly-Size** [3826]. **Polya** [1101]. **polyalphabetic** [793]. **polygonaler** [622]. **Polygons** [854]. **Polylogarithmic** [3805]. **polynomes** [1042]. **Polynomial** [3954, 3145, 1360, 2695, 2847, 1366, 2774, 3293, 3692, 1859, 2719, 2791, 3867, 3263, 1450, 3074, 3402, 1643, 3410, 3411, 3413, 3637, 622, 1472, 3890]. **polynomial-time** [1450]. **polynomially** [3253]. **Polynomials** [2963, 2586, 3396, 1294, 1858, 1778, 1874, 3919, 1681, 2896, 3121, 3897, 1697, 2986, 1439, 3682, 1036, 1176, 3176, 3412, 1190, 1878, 3571]. **polyominoes** [2130]. **Poor** [754, 128, 3846]. **popular** [2178, 655]. **Population** [1986, 8, 18, 135]. **Populations** [25, 12, 40]. **Portability** [997]. **Portable** [1889, 3830, 2321, 3131, 3257, 2031, 2753, 3960, 1824, 2177, 480, 1236, 1288, 2928, 1077, 1181, 1766, 1980, 932, 1572, 1048, 1142, 1255, 1582, 1413, 2668, 2750, 2901, 1000, 1351, 2767, 1368, 3069, 1960, 1966, 1981, 1390, 1470, 1660, 3701, 1772, 1868, 1661, 1784]. **Portland** [4130, 4116]. **Posamentier** [3274]. **Positive** [1681, 1107, 2439, 420, 884, 898, 1204, 2850, 1457]. **Possible** [2220, 2092]. **possibly** [2296]. **post** [3190]. **post-processing** [3190]. **Posterior** [3698, 2001]. **Postgraduate** [646, 4022]. **Postprocessing** [3502, 3688, 3136]. **pour** [322, 1367, 2184, 2868, 1580]. **Power** [3514, 3277, 417, 3305, 2883, 1393, 755, 2321, 3239, 3240, 583, 3249, 3371, 1613, 1617, 1712, 1713, 1802, 1917, 1918, 2155, 2156, 2328, 2329, 1340, 1161, 3147, 3390, 3394, 415, 2858, 2534, 2938, 984, 3217, 3218, 3452, 3796]. **power-normal** [3796]. **Power-Up** [3277]. **POWER7** [3686]. **powerful** [3855]. **Powers** [745, 1057, 1326, 2662]. **pp** [3652]. **Practical** [1885, 2310, 3833, 2588, 3143, 3435, 1892, 195, 2351, 1726, 2641]. **Practically** [3369, 2342]. **Practice** [2565, 2669, 4115, 2051, 957, 1234, 2110]. **Practice-Oriented** [2669]. **practitioners** [3677]. **PractRand** [3721]. **Prague** [4009]. **PRAM** [2144]. **PRAND** [3662, 3712]. **pratiques** [1892]. **PRBS** [557]. **Precautions** [573, 629]. **precision** [3524, 1009, 2213, 1868, 3601]. **Predefined** [2013]. **Predict** [2752, 1538, 1730]. **Predictability** [3797]. **predictable** [3115]. **Predicting** [2895, 3674]. **Prediction** [2027, 2957, 2313, 264]. **Preferential** [3938]. **preferred** [553]. **prefix** [2185]. **Preliminary** [2314, 760, 104]. **Prescribed** [2826, 1787, 2425, 2790, 2726]. **Presentations** [394]. **presented** [4012]. **Preserving** [1111, 3995]. **Press** [2124, 3685]. **pretty** [2094]. **Previously** [2524]. **PRG** [3682]. **Price** [170, 3685]. **pricing** [3628, 3691]. **primality** [698, 2403]. **Prime** [1322, 2573, 2975, 1283, 3873, 1189, 1985, 3644, 2099, 569, 2405, 2747, 2413, 2143, 3241, 1796, 2829, 1334, 1613, 1802, 913, 2174, 1443, 782, 2371, 2534, 3016, 1776, 2808, 3442, 3217, 3218, 3452]. **prime-modulus** [782]. **prime-power** [2534]. **Primes** [2148, 939]. **Primitive** [1723, 1042, 1190, 1997, 2654]. **Primitives** [2588, 3143]. **Princeton** [2124, 4205]. **Principle** [3755, 3506]. **Principles** [4082, 180, 816, 1330, 2666, 3050, 855, 2359, 4179, 4115, 2627, 1517, 1531, 1532].

**Printer** [2095]. **prior** [374]. **Priori** [244]. **priority** [692, 693]. **privacy** [3995]. **privacy-preserving** [3995]. **Private** [1641, 2133]. **Prize** [2845, 3886]. **PRNG** [3941, 3864, 3797, 2839, 3693, 2717, 3888]. **PRNGlib** [2190]. **Proactive** [2022]. **Probabilistic** [1813, 922, 3317, 1588, 1900, 1327, 2432, 1724, 1739, 2777, 2932, 454, 1555, 625, 574]. **probabilità** [16]. **probabilités** [3]. **Probabilities** [950, 1108, 1567, 3829, 3, 3065, 140]. **Probability** [3859, 1887, 294, 4012, 3828, 2142, 169, 2027, 3139, 82, 305, 1239, 653, 560, 2619, 360, 1129, 1649, 2722, 2627, 2090, 1186, 2204, 526, 262, 207, 4079, 907, 4013, 151, 1331, 1104, 4184, 16, 2163, 381, 1443, 256, 1554, 663, 568, 2649, 3934, 4027, 389, 2618]. **Probable** [1, 969, 2, 2143, 1796, 1443]. **probablistic** [564]. **Probably** [1322]. **Problem** [2139, 3358, 52, 2907, 304, 1455, 388, 3774, 1774, 1599, 2823, 948, 3513, 3276, 958, 3175, 3876, 188, 3890]. **problème** [2823]. **Problems** [197, 590, 105, 1118, 27, 787, 341, 342, 1858, 1650, 4147, 1669, 2897, 195, 1900, 1207, 1218, 770, 223, 203, 1758, 3696, 189, 2873, 704, 424, 166, 1583]. **procédé** [322]. **Procedure** [1099, 1208, 950, 1108, 996, 3903, 444, 309, 280, 1762, 1594, 1676, 322, 773, 334, 283, 336, 3634]. **Procedures** [2570, 3727, 254, 565, 617, 2633, 1136, 1672, 1684, 582, 320, 2451, 2712, 2935, 3180, 344, 846]. **Proceedings** [4036, 4057, 4082, 4105, 4196, 4203, 4001, 4058, 4039, 4047, 4002, 4071, 4025, 4030, 4044, 4126, 4000, 4066, 4067, 4208, 4193, 4100, 4024, 4139, 4140, 4167, 4089, 4020, 4102, 4103, 4146, 4022, 4055, 4015, 4104, 4153, 4163, 4168, 4051, 4097, 4042, 4063, 4021, 4037, 4038, 4007, 4083, 4106, 4029, 4107, 4131, 4098, 4023, 4053, 4145, 4065, 4027, 4132, 4076, 4133, 4137, 4127, 4134, 4061, 4157, 4120, 4072, 4101, 4121, 4128, 4150, 4017, 4077, 4033, 4016, 4035, 4142, 4095, 4122, 4045, 4114, 4090, 4041, 4046, 4052, 4062, 4073, 4091, 4096, 4123, 4130, 4143, 4148, 4180, 4189, 4110, 3999, 4005, 4069, 4177]. **Proceedings** [4197, 4070, 4018, 4093, 4187, 4202, 4138, 4004, 4085, 4179, 4088, 4158, 4094, 4080, 4109, 4113, 4081, 4116, 4092, 4125, 4185, 4169, 4192, 4166, 4050]. **Process** [2067, 3314, 1704, 528, 981, 3330, 1591]. **Process-Voltage-Temperature** [3314]. **Processes** [170, 300, 350, 1822, 2691, 688, 2439, 97, 102, 1061, 4184, 274, 198, 1520, 3613, 4009, 2598, 3993, 3878, 360, 1129, 1649, 2722, 228, 62, 1781, 319, 389, 394]. **Processing** [669, 3497, 4088, 4005, 3665, 1203, 4126, 1355, 2271, 1446, 3164, 3633, 3190, 1982, 1656, 2554]. **processor** [3351, 1523, 1524, 3686, 3329]. **Processors** [2422, 4170, 3386, 3417, 3432, 3699, 3349, 3865, 1410, 1501, 1424, 1620, 1635, 1464, 3462, 3577]. **Produce** [1113, 3979, 3939]. **Produced** [1408, 3762, 558, 1082, 1083, 1409, 3059, 2278, 1558, 2732]. **Producing** [337, 359, 75, 76, 385, 2950]. **Product** [2594, 3066, 207, 3203, 898, 1158, 1936, 1239]. **Production** [169, 331, 176]. **Products** [3011, 395, 534, 2042, 3526, 2812]. **Professor** [4131]. **Profile** [2963, 2830, 2764, 2785, 3077, 1749, 1555, 2954, 1882]. **Program** [3476, 3663, 2135, 1215, 3799, 225, 3219, 1023, 2376, 615, 1383, 1132, 936]. **Programmable** [2271, 1828, 2615]. **Programmed** [814, 900, 1690, 2960].

**Programmierung** [890]. **Programming** [3830, 3960, 2999, 2088, 1650, 3780, 4142, 890, 4023, 1218, 2169, 2708, 612, 2215, 3702]. **Programs** [1484, 3357, 3715, 3358, 375, 467, 1025, 3925, 708, 1135, 1473, 3678, 921, 1982, 1893]. **progressive** [3888]. **project** [2585]. **Projections** [3151]. **proliferating** [3964]. **Proof** [2010, 2816, 2483, 717, 404]. **Proofs** [1956, 3630, 3770, 3918, 2822, 2432, 2097]. **Proper** [2128, 1346, 2229]. **Properties** [580, 851, 2025, 548, 2332, 2337, 2906, 858, 507, 186, 2611, 446, 417, 740, 1877, 2888, 3583, 2413, 1897, 2239, 297, 1804, 2155, 2248, 2253, 2333, 2671, 2158, 723, 2338, 143, 2763, 1355, 913, 775, 2352, 1033, 3163, 1632, 3394, 1737, 1746, 1558, 99, 801, 2874, 3025, 3088, 2809, 1780, 2223]. **Property** [181, 3223, 3475, 1148, 3255, 3842, 1295, 803]. **property-based** [3842]. **proportional** [3066]. **Proposal** [496, 1105, 1629, 1974]. **Proposals** [1648, 1562]. **Proposed** [1180]. **Propositional** [2816, 2483]. **Propriétés** [801]. **Prospective** [510]. **protection** [2317, 3990]. **Protocol** [2022, 3323, 3324, 3155, 3995, 1094]. **Protocols** [3592, 3813, 2210, 1401, 1680, 3288]. **Proton** [348]. **Proton-Electron** [348]. **Provable** [3032, 1885]. **Provably** [2310, 3352, 2160, 3093, 1434, 3568]. **Proved** [3714]. **Providence** [4036, 4179]. **Providing** [2007]. **Proving** [2684]. **Ps** [3610]. **PSA** [4016]. **'pseudo** [2577, 1050, 2559, 496, 3345, 1146, 3975, 751, 942, 2315, 3112, 2891, 3923, 267, 2132, 987, 2820, 2746, 2231, 1598, 3588, 900, 1488, 543, 1022, 1096, 1202, 181, 1408, 1687, 2141, 239, 502, 183, 757, 2568, 584, 3363, 2022, 3246, 216, 1698, 217, 3497, 3599, 3499, 550, 2249, 3960, 1506, 2160, 3837, 1112, 1511, 1030, 1812, 408, 2498, 2907, 2985, 768, 769, 3376, 243, 1519, 2588, 3143, 3272, 1430, 353, 354, 380, 862, 2592, 1436, 1724, 355, 2690, 329, 3928, 155, 2511, 2919, 2772, 3167, 2611, 2930, 446, 3736, 249, 3535, 1238, 1633, 1373, 449, 77, 1548]. **Pseudo** [1181, 2375, 2076, 131, 3297, 2617, 2788, 1553, 2455, 654, 613, 834, 873, 874, 1648, 206, 3986, 925, 3639, 2382, 3545, 361, 391, 1082, 740, 3021, 929, 1043, 2098, 229, 1568, 3197, 3086, 3947, 1769, 1574, 2637, 2638, 569, 192, 2467, 346, 535, 2108, 2878, 2645, 136, 3323, 3324, 572, 1581, 2811, 1665, 2219, 2220, 2736, 2813, 1047, 426, 1140, 1195, 805, 3332, 428, 1048, 1142, 2554, 807, 3575, 1255, 937, 1144, 1313, 1315, 1399, 3106, 1786, 2123, 2012, 1678, 3233, 3922, 3110, 3473, 3349, 3113, 2566, 3480, 3666, 2894, 1147, 2137, 1489, 3237, 1892, 2016]. **pseudo** [674, 2413, 905, 104, 3756, 3360, 718, 3717, 3127, 759, 3247, 1023, 3495, 1414, 3250, 3496, 297, 3251, 3834, 1334, 438, 549, 585, 3255, 406, 113, 218, 1420, 1217, 1276, 1339, 322, 2906, 153, 1278, 242, 2043, 184, 765, 767, 1163, 1721, 1282, 1350, 477, 3269, 3839, 3515, 913, 2767, 1936, 1229, 3729, 3147, 224, 2506, 3280, 3387, 2275, 3157, 3282, 1003, 1628, 2920, 248, 1007, 1174, 3164, 3284, 2441, 2927, 2612, 1841, 3394, 3397, 1634, 3293, 3177, 3691, 3738, 2373, 284, 3542, 2786, 2865, 455, 793, 3772, 3012, 1750, 3404, 2289, 695, 797, 798, 799]. **pseudo** [1184, 3409, 1562, 418, 2294, 491, 258, 1080, 3418, 3192, 3193, 662, 800, 663,

3851, 3421, 3643, 970, 3882, 566, 3023, 878, 3783, 707, 622, 3551, 3552, 2636, 3969, 2299, 1193, 345, 570, 3971, 3315, 2217, 2393, 2551, 2730, 165, 2396, 193, 1580, 3447, 3213, 2477, 3785, 3449, 1094, 3220, 3786, 2956, 3037, 1475, 3573, 3653, 3225, 3457, 2887, 3576, 3339, 3823, 3462, 3463, 438, 471, 639, 362, 628].

**pseudo-aléatoire** [1892, 322]. **pseudo-aléatoires** [759, 284, 1580].

**Pseudo-Casuali** [987]. **pseudo-disturbance** [1147]. **Pseudo-Inversen** [1030]. **Pseudo-Random**

[496, 942, 2315, 2891, 267, 2132, 2231, 1598, 900, 543, 1022, 1096, 1202, 181, 1408, 239, 183, 757, 584, 2022, 3246, 216, 3599, 550, 3960, 1506, 1511, 1812, 408, 2907, 2985, 768, 769, 3376, 243, 3272, 353, 380, 862, 355, 329, 2511, 2919, 2611, 2930, 3736, 1373, 1181, 2076, 131, 2788, 2455, 654, 613, 873, 206, 3986, 925, 3639, 361, 391, 1082, 740, 1043, 2098, 229, 3947, 1574, 569, 2467, 346, 535, 2645, 136, 572, 1581, 1665, 2219, 2220, 426, 1140, 1195, 805, 3332, 428, 1048, 1142, 3575, 1255, 937, 2559, 751, 2746, 3588, 1488, 502, 217, 3497].

**Pseudo-random**

[2249, 2160, 1112, 2498, 1519, 1430, 2592, 1436, 1724, 3928, 1238, 1633, 77, 1548, 2375, 2617, 834, 874, 3545, 3021, 929, 3086, 1769, 2637, 2638, 192, 2108, 2878, 2736, 2813, 2554, 807, 1144, 1313, 1315, 1399, 3106, 1786, 2123, 2012, 1678, 3233, 3922, 3110, 3473, 3349, 2566, 3666, 2894, 2137, 1489, 2016, 674, 905, 104, 3756, 3360, 718, 3717, 3127, 3495, 1414, 3250, 3496, 297, 3251, 3834, 1334, 438, 549, 585, 3255, 406, 113, 218, 1339, 153, 1278, 242, 184, 765, 767, 1163, 1282, 1350, 477, 3515, 913, 2767, 1936, 1229, 3729, 224, 2506, 3280].

**pseudo-random** [3387, 2275, 3157, 3282, 1003, 1628, 2920, 248, 1007, 1174, 2441, 2927, 2612, 1841, 3394, 3397, 3293, 3177, 3691, 3738, 2373, 284, 455, 793, 3772, 3012, 1750, 3404, 2289, 695, 797, 798, 799, 1184, 418, 2294, 491, 258, 3418, 662, 800, 663, 3851, 3643, 3023, 878, 3783, 3551, 3552, 2636, 3969, 1193, 345, 570, 3971, 3315, 2217, 2393, 2551, 2730, 165, 193, 3213, 2477, 1094, 3220, 2956, 3037, 1475, 3573, 3653, 3225, 3457, 3576, 3462, 3463, 628, 362].

**Pseudo-random-number** [3167, 2865, 2299]. **Pseudo-Randomness** [2588, 3143, 2772, 446, 1687, 3535, 1553, 3193]. **pseudo-uniform** [1023].

**Pseudo-Zufallszafflen** [1050]. **Pseudo-Zufallszahlen** [438, 471, 639].

**pseudoentropy** [3650]. **pseudoinverses** [1030]. **pseudonoise** [2916].

**Pseudorandom** [2408, 2815, 2483, 2816, 2963, 3346, 1889, 3582, 3658, 3826, 849, 2228, 3474, 2314, 3350, 2015, 2134, 3352, 3753, 3482, 3863, 3937, 2896, 3591, 3592, 3357, 3715, 903, 904, 818, 2018, 3124, 1267, 2020, 1151, 1209, 1328, 2574, 2900, 3899, 548, 2667, 2669, 2494, 2150, 3603, 1708, 1216, 1610, 1611, 1612, 1615, 1711, 1914, 2033, 2036, 2039, 2153, 2247, 2251, 2977, 3137, 2157, 2332, 2041, 2254, 2336, 2981, 763, 2676, 1062, 821, 2429, 860, 2680, 1346, 1426, 1514, 3510, 1516, 1815, 2759, 442, 3511, 3607, 3672, 2434, 2835].

**Pseudorandom**

[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** [1231, 2436, 1725, 1523, 2351, 3385, 2272, 2482, 1070, 2509, 3928, 3523, 1942, 1170, 331, 958, 3152, 3280, 3065, 1285, 84, 1171, 21, 1232, 95, 1118, 2173, 1439, 2917, 3387, 3281, 1440, 2174, 2273, 2274, 2353, 3524, 1002, 1947, 1949, 1033, 2275, 3155, 3156, 3157, 3282, 3159, 1003, 728, 26, 31, 32, 1443, 2844, 3907, 3942, 777, 916, 1004, 1234, 2845, 479, 2355, 357, 779, 1627, 307, 2357, 1628, 1446, 2920, 3732, 2440, 4009, 918, 1006, 1034, 248, 3841, 2695, 3067, 2921, 2998, 3068, 781, 1121, 826, 3983, 3389, 1368, 1632, 1838, 1957, 2179, 2184, 2279, 2280, 2281, 2282, 2360, 2364].

**random** [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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