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

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## Title word cross-reference

**#14** [2344]. **#15949** [897]. **#4059** [1278]. **#8373** [2160].

$(0, 1)$ [1087]. $(0, s)$ [2610, 3029]. $(a^n - 1)/(a - 1)$ [945]. $(j, \epsilon)$ [750]. $(n^2\alpha)$ [2561]. $(n^k\alpha)$ [2562]. $(n\alpha)$ [2561]. $(t, m, s)$ [2102, 2984, 2108, 2417]. $(t, s)$ [2709, 2102, 2408, 2984, 2108]. $(X, Y)$ [3781]. $(X^2 - Y^2)^{1/2}$ [501]. $0.1(0 \times 1)0 \times 9$ [141]. 1 [757, 901, 2932, 173, 306, 732, 3065, 3067]. $1, 2, 3$ [3626]. $1.13198824\ldots$ [2585]. $10,000$ [285]. **$10.00** [170]. $10^{2857}$ [2556]. $10^{435}$ [2099]. $1200\mu$ [3243]. 128 [3269]. 13 [273]. 16 [273]. 2 [2932, 2180, 957, 3203, 2570, 2909, 3069, 398]. 2,000 [87]. **$24.95** [2147]. $2^{-31} - 1$ [860, 958]. $2^{15}$ [2199]. $2^{31} - 1$ [3678, 824, 1003, 1037, 1230, 1231]. $2^{31} - 69$ [3512]. $2^{32} - 1$ [1120]. $2^{\alpha}$ [1516, 2302]. $2^{\beta}$ [1353, 1523, 1776]. $2^k$ [2690]. $2^{k-1}$ [2690]. $2^p$ [3365]. $2^p - 1$ [2337]. $2^t$ [4038]. 3 [1833, 3831]. 32 [3770]. 4 [273]. 48 [248]. 5 [273]. **$52.95** [3733]. 64 [3971]. $[0, 1]$ [219, 872]. $^{-1}$

[3771]. $^2$ [3243]. $_\tau$ [2439, 2008]. $a$ [370]. $a = \pm 2^q \pm 2^r$ [2473, 2548]. $a_n$ [668]. $\alpha \geq 1$ [3774]. $\alpha\lambda$ [734, 735]. $b$ [2196, 3463]. $b = 2, 3, 5, 6, 7, 10, 11, 12$ [1067, 1338, 2697]. $b^n \pm 1$ [1067, 1338, 2697]. $\beta = 32$ [1353]. $\beta = 48$ [1353]. $\beta \simeq 32$ [1523]. $\beta \simeq 48$ [1523]. $\left\{\frac{a}{m}j^2\right\}, \left\{\frac{a}{m}(j+\tau)^2\right\}$ [328]. mod1 [301, 302, 409, 660, 743, 665]. mod$n$ [2267]. $C^\infty$ [1297]. $C\exp(-\lambda|x|^\nu)$ [1504]. $\chi^2$ [350, 953, 1117, 1118, 1119, 6, 7]. $D$ [2443, 1853, 3077, 2138]. $d^2$ [93]. $e$ [81, 1542, 87, 373]. $\epsilon$ [1958]. $F_2$ [3113, 3124, 3971, 3351]. $F_{2^w}$ [2910]. $G$ [454, 455]. $\Gamma$ [1252, 1225]. $j$ [2063]. $K$ [2254, 3991, 1492, 3959, 3993, 1811, 2171, 1072, 1355, 1965, 3829, 3865, 1138, 1394, 2017]. $k > 1$ [1383]. $L^2$ [2087, 2013]. $L_2$ [2191]. $L_p$ [2470]. $\lambda$ [2899]. $M$ [1471, 1235, 1201, 853, 471, 1074, 1042, 448, 250, 1387, 2217, 2403, 2131, 2242, 2244, 2333, 1149, 231]. $\mathbf{F}_2$ [3206, 3589, 3815]. $\mathbf{F}_{2^w}$ [3068]. $\mathbf{F}_q$ [3327, 3647]. $\mathbf{F}_{q^m}$ [3327, 3647]. $\mathbf{R}^d$ [4109]. $\mathbf{F_2}$ [3590]. GF($2^{\mathrm{m}}$) [1601]. $\mu$ [3306]. $N$ [1167, 921, 270, 1343, 1721, 1722, 2288, 731, 3826, 205, 624, 196, 2871, 201, 1558, 3948, 805, 207, 431, 808]. O(3) [1603]. $O(n(1 + \log(N/n)))$ [1975]. $P$ [6, 729, 4016, 4098, 3248, 2492, 2235, 4007, 3465, 2248, 2435]. $\partial^2 u/\partial x^2 + \partial^2 u/\partial y^2 + (K/y)(\partial u/\partial y) = 0$ [197]. $\pi$ [2947, 81, 1542, 87, 285, 288, 3004]. $\pm 1$ [668]. $\pm 2^{k_1} \pm 2^{k_2}$ [2337]. $\pm 2^{p_1} \pm 2^{p_2}$ [2682]. $q$ [2574]. $S$ [1036, 1916]. $\sigma$ [1603]. $\sqrt{2}$ [412, 443]. $\sum a_n/n$ [668]. $T$ [2643, 2927, 1906, 854, 1916, 1341, 3118, 871, 967, 972, 40]. $U(0, 1)$ [2798]. $W$ [3453]. $X(I + 1) = AX(I) \bmod 2^{31}1$ [786]. $X/Z$ [3781]. $x^2 \bmod N$ [2046]. $X_{n+1} = a_n X_n + b_n \pmod p$ [1838]. $X_t = X_{t-3p} \oplus X_{t-3q}$ [1526]. $Y/Z$ [3781]. $y = [(a + x)\sin(bx)] \bmod 1$ [2415]. $Z$ [3781]. $Z/nZ$ [1949]. $Z_p$ [1425].

***good*** [2741].

**-adic** [3463, 455, 454, 2435]. **-biased** [1958]. **-Bit** [3269, 3971, 248]. **-concave** [2643]. **-D** [3203]. **-deformed** [2574]. **-dependent** [1958]. **-Detection** [3948]. **-digit** [273]. **-Dimensional** [270, 196, 201, 921, 1558, 2017, 1811, 808, 205, 1343, 3077]. **-discrepancy** [2087]. **-distributed** [1355]. **-Distribution** [972, 1906, 1072]. **-distributions** [1853, 2138]. **-échantillon** [805]. **-estimates** [1471]. **-Fock** [2574]. **-function** [2063, 2899]. **-functions** [1297]. **-homomorphism** [2443]. **-Linear** [3113, 3206, 3971, 3124, 3351, 3589, 3590, 3815]. **-model** [1603]. **-net** [2102]. **-Nets** [2984, 2108, 2417]. **-nm** [3770]. **-observation** [1721, 1722]. **-quanta** [1225]. **-Random** [2248]. **-sample** [805]. **-sequence** [1042, 1387, 2403, 2102, 1235, 1201]. **-Sequences** [853, 2610, 3029, 448, 2408, 2984, 2108, 2709, 1074, 2217, 2131, 2242, 2244, 2333]. **-sphere** [1149, 431]. **-step** [1138, 1394]. **-System** [2254]. **-values** [4007, 729, 3248]. **-Vector** [3993, 3959, 3829, 3865]. **-wise** [3991, 1492, 2171, 1965].

**/dev/random** [2780, 3750, 2839, 2934]. **/dev/urandom** [2839].

**0** [993]. **0-471-01751-5** [993]. **0.57pJ** [3379]. **0.57pJ/bit** [3379]. **'05** [4283, 4287]. **'07** [4293]. **'08** [4298].

**1** [767, 1076, 1971, 1972, 3494, 3395]. **1.04** [3306]. **1.1** [3857]. **1.6** [3771]. **'10** [4312, 914]. **1013** [4044]. **106** [1119, 846]. **10th** [4140, 4288]. **11** [1347]. **111** [819]. **11th** [4137, 4308, 4219]. **12** [897]. **120** [2929]. **128-bit** [2526, 3262]. **12th** [4287]. **'13** [4334]. **133** [268, 269, 308, 314]. **134** [901]. **13th** [4255]. **14th** [4294, 4222]. **153** [956, 1118, 1119]. **155** [953, 1119]. **157** [1006]. **16** [2945, 1514, 3076, 939]. **16-Bit** [1300, 1914, 763, 1514, 2238]. **16-bit-PC** [1514]. **160** [2544]. **16th** [4205]. **1750** [1929]. **17th** [4312]. **181** [1877]. **183** [1192, 1058, 1152, 1267]. **193** [1178, 1077]. **1949** [4129]. **1953** [4132]. **1954** [4133]. **1957** [4134]. **1960** [4135]. **1962** [4139]. **1965** [4140]. **1967** [4142]. **1970** [508]. **1971** [4145]. **1974** [4147]. **1976** [4151, 4148]. **1978** [4152]. **1981** [4157]. **1983** [4160, 4163]. **1984** [4167, 4165]. **1986** [4171, 4175]. **1987** [4176]. **1988** [4182, 4181, 4183, 4185, 4186]. **1989** [4191]. **1990** [4192, 4193, 4207]. **1991** [4199, 4200, 4205]. **1992** [4203, 4210, 4211]. **1994** [4221, 4223, 4231, 4224, 4225]. **1995** [4226, 4237, 4228]. **1996** [4251, 4239]. **1997** [4240, 4244]. **1998** [4257, 4250, 4258]. **1999** [4253, 4254]. **1a** [3498].

**2** [196, 221, 2321, 3495]. **2.4GHz** [3507]. **20** [2147, 2493]. **200** [303, 365]. **2000** [4275, 4264, 3217]. **2001** [4270, 4272]. **2002** [4273, 2696, 4280]. **2003** [2982]. **2004** [4278, 2696, 4290]. **2005** [4283, 4292]. **2006** [4301]. **2007** [4293, 3244, 4297]. **2008** [4298, 4300, 4309]. **2009** [4310]. **2010** [4312, 4317]. **2011** [4324]. **2014** [3872, 3913]. **2018** [3986]. **204** [1117]. **205** [1419, 1128]. **20MHz** [2616]. **20th** [4339, 4185, 4186]. **21st** [4250, 2864]. **22** [2959, 3048, 3719]. **22nd** [4254]. **235** [321]. **23rd** [4158]. **247** [324]. **24th** [4161]. **25** [2160]. **256** [2928]. **25th** [4164]. **266** [362, 363, 631]. **267** [364]. **27th** [4296]. **28th** [4179]. **29** [506, 810]. **294** [427]. **29th** [4200, 4184]. **2nd** [4157, 4170].

**3** [3671, 3208, 3867, 1994, 3496, 3874]. **3-Key** [2965]. **3.0** [2711]. **3.x** [2343]. **30** [3637]. **30th** [4190, 4211]. **31** [2630]. **31-bit** [775]. **31st** [4196]. **32-Bit** [1247, 2983, 3008, 3049, 3123, 1784, 3511]. **32-bit-word** [547]. **334** [436, 481]. **33rd** [4206]. **342** [461, 463]. **360** [817, 681, 480, 485, 494, 464]. **360/370** [725]. **369** [531]. **36th** [4278, 4229]. **370** [503, 621]. **37th** [4283, 4238]. **3800** [2143]. **381** [518, 626]. **38th** [4242]. **39th** [4293].

**4** [467, 676, 3497]. **4086** [2948]. **40th** [4298]. **41st** [4263]. **42** [696, 697]. **4217th** [3512]. **4217th-order** [3512]. **425** [599, 701]. **42nd** [4267]. **440** [3168]. **440-nA** [3168]. **441** [648]. **45nm** [3379, 3507]. **46** [2160]. **48** [499]. **48-Bit** [1053, 935]. **488** [678]. **4Gbps** [3379].

**5** [993]. **5.0** [1682]. **5.2** [2839]. **500** [3434, 322]. **51st** [4318]. **52** [897]. **52nd** [4333]. **5869** [4123]. **5th** [4299].

**6** [3769]. **60th** [4335]. **61** [1267]. **623-dimensionally** [2402]. **64-bit** [2272, 764, 2741, 2897, 2568, 3634, 3639]. **647** [1233]. **659** [1336, 2809]. **668** [1371]. **678** [1450]. **6th** [4262].

**701** [155]. **71** [1278]. **712** [1750]. **738** [1909]. **76** [1043]. **780** [2372]. **79** [2195]. **7mW** [3507].

**8-bit** [2616]. **8.8/11.2** [4316]. **800** [3098, 3911]. **800-22** [3498]. **800-90** [3098]. **800-90B** [3911]. **802** [2534]. **806** [2559, 2560]. **8088/8086** [1280]. **80f** [939]. **82** [4159]. **82g** [1076]. **82h** [1043]. **84** [4169]. **85** [2069]. **'86** [4180]. **'87** [4177]. **'88** [4195]. **8th** [4328, 4183].

**'90** [4197, 3098, 2075]. **90/150** [2840]. **90/95** [2708]. **90B** [3911]. **'91** [4205]. **92** [720]. **'93** [4212, 4215]. **'94** [4222, 4223, 4224]. **947** [3823]. **'95** [4228, 4230, 2034]. **958** [3900]. **'96** [4234, 4239]. **'97** [4244, 2482]. **970** [3952]. **978** [3769]. **978-0-521-17561-6** [3769]. **978-0-88385-043-5** [3733]. **97j** [2321]. **'98** [4257, 772, 866]. **9th** [4316].

**=** [4134, 4145].

**A.2.4** [2965]. **AAECC** [4255]. **AAECC-13** [4255]. **AbBT** [1636]. **Absolute** [402, 372]. **Absorption** [290]. **Abstract** [2445, 1172, 1530, 2631, 1647, 1652, 1567, 1206, 3692, 1449, 2539, 1845, 3601, 1253, 2505, 2508]. **abstracts** [4205]. **abuses** [1401]. **AC** [2009]. **Accelerated** [3354, 1895, 3743, 3799, 3753, 3228]. **Accelerating** [2349, 3443, 3835]. **Acceleration** [3964, 2289, 3811, 4011, 1968]. **Accelerator** [4039]. **Acceptance** [1524, 3692, 1130, 981, 3883, 2936, 1014, 1043]. **Acceptance-Complement** [1130]. **Acceptance-Rejection** [1524, 3692, 3883, 2936, 1014, 1043]. **Acceptance/rejection** [981]. **Accepting** [2335, 2026]. **Access** [1807, 2048, 4048, 2220, 1708, 1709, 3211, 2098, 2777]. **according** [11, 698]. **Accumulated** [339, 2004]. **Accuracy** [212, 2787, 1349, 1461, 655, 1193, 2588, 3161, 3614, 2482, 2747, 2982, 3244, 3360, 566, 3838, 576, 632, 2221, 3091]. **Accurate** [3091, 855, 3861, 3160, 603, 3773]. **Achieve** [3999]. **achieving** [442]. **Acknowledgement** [696, 697]. **ACM** [4220, 4171, 4176, 4182, 4192, 4203, 4212, 4221, 4226, 4253, 4260, 4273, 4283, 4293, 4298, 4311, 4320, 4327, 4334, 4200, 4287, 4310, 4224, 678, 503, 599, 518, 648, 362, 621, 3622, 531]. **ACM-SIAM** [4220]. **ACORN** [1489, 1799]. **acquisition** [2298]. **acquisition-processing** [2298]. **ACR** [1535]. **Actel** [3196]. **actions** [2076]. **Active** [3661, 3148]. **Actuarial** [4282]. **Acyclic** [1415]. **Ada** [1416, 2034, 1217, 1736, 1367]. **Adams** [2269]. **Adaptive** [3096, 2066, 2287, 3208, 921, 736, 3843, 3457, 2304, 3829, 3627, 808]. **Add**

[1793, 2690, 1941, 1891]. **Add-with-Carry** [1793, 1891]. **Addendum** [1340]. **addition** [2221]. **Additional** [3239, 807]. **additions** [2082]. **Additive** [2145, 2691, 911, 2269, 200, 185, 2093, 2094, 2902, 457, 635, 472, 557, 601, 602, 1985, 843, 2332, 3646, 3286, 3523]. **adic** [3463, 454, 455, 2435]. **Adjoint** [2110]. **Adjustable** [4122, 3303]. **Administration** [4233]. **Admissible** [3135]. **Advance** [4125]. **Advanced** [1493, 1967, 4147, 4316, 4265, 2500, 2579]. **Advances** [4159, 4177, 4195, 1101, 4245, 4257, 2734, 4216, 2756, 4167, 4169, 4222, 4296, 4180]. **Advancing** [4306]. **Adventures** [4066, 4241]. **adversaries** [3732]. **advised** [3919]. **aegis** [4140]. **AES** [2803, 2539, 2627, 2965]. **Affairs** [4140]. **Affects** [4053, 3566]. **Affine** [3901, 4006, 2575]. **Against** [2942, 4111, 3418, 3930, 1366, 3256, 3732, 3525, 3919, 4026]. **Age** [2787]. **Agricultural** [24, 299, 47, 73, 114, 115, 171, 172]. **Ahead** [3113, 3206, 3207, 3403]. **Ahrens** [897]. **AI** [4117]. **aid** [2122]. **Aimed** [3081]. **Air** [4142, 1925]. **AIS** [2630, 2493]. **AIX** [2839]. **Akima** [777]. **al.** [923]. **Alabama** [4200]. **Alamos** [3814]. **Alberta** [4147]. **Alea** [3543]. **aléatoire** [1908, 322, 805]. **aléatoires** [4126, 2863, 763, 2209, 284, 344, 2570, 1594, 904]. **aleatorios** [134]. **Alexandria** [4287]. **Alfred** [3339]. **Algebra** [2040, 3308, 1874, 3734, 4201, 3894, 4255, 426, 4201]. **Algebraic** [437, 4213, 2786, 3813, 1543, 4230, 2407, 2408, 528, 3525, 4091, 4003, 4255, 1373, 121, 666, 99, 286, 3989]. **Algebraic-Geometry** [2407]. **Algorithm** [4044, 757, 818, 2517, 3018, 905, 678, 1805, 546, 503, 761, 3671, 682, 1920, 1285, 2456, 2457, 2458, 2611, 105, 3207, 513, 1178, 2806, 1077, 599, 921, 1299, 4112, 3820, 518, 648, 27, 652, 2974, 3234, 3618, 1305, 1389, 1658, 1574, 2109, 839, 362, 2664, 621, 368, 531, 2006, 2007, 3506, 1889, 2014, 3952, 2921, 1056, 1595, 2245, 1057, 2686, 1895, 1684, 3006, 3883, 1902, 1904, 3417, 3170, 3095, 3746, 854, 1274, 1504, 760, 2441, 2519, 2940, 1113, 3932, 505, 4070, 554, 1165, 3322, 1290, 2184, 2794, 2618, 2957, 3589, 1176, 1129, 3224, 2968, 1463, 4036, 4077, 1753, 3908]. **algorithm** [2905, 797, 2651, 1196, 1310, 2908, 3783, 3947, 2410, 1090, 3949, 1095, 705, 933, 624, 3873, 1584, 1883, 3627, 2127, 3510, 1795, 1796, 1320, 2427, 2428, 1680, 2142, 3007, 2927, 4086, 754, 3736, 808, 2779, 4044, 901, 819, 268, 269, 436, 1336, 1909, 720, 953, 506, 321, 956, 1117, 1233, 303, 772, 1006, 324, 2372, 381, 1178, 866, 1077, 2534, 2809, 1371, 1450, 481, 3823, 308, 3900, 1750, 2559, 2560, 1192, 701, 363, 364, 365, 392, 314, 626, 846, 461, 463, 427, 631, 3952, 810, 1058, 1152, 3406, 3532, 1267]. **Algorithmic** [3437, 4002, 4041, 1762, 571, 1597, 4246]. **algorithmische** [571]. **algorithmischer** [1762]. **Algorithms** [4220, 899, 901, 3924, 819, 1804, 2257, 1275, 2163, 720, 4120, 3191, 953, 1620, 506, 1116, 956, 1117, 1118, 1119, 3324, 1038, 772, 773, 1006, 1943, 3040, 4256, 1177, 2625, 2720, 1178, 866, 647, 691, 1077, 1843, 1848, 2965, 2385, 2545, 2203, 1376, 2205, 1975, 2817, 488, 1192, 4039, 2222, 1314, 2233, 2236, 1785, 846, 2500, 4272, 4209, 4150, 810, 1058, 1152, 1267, 1689, 897, 3799, 2598, 1699, 3096, 2161, 1225, 2949, 2186, 2284, 4255, 1174, 3687, 2191, 1739, 1374, 1847, 1547, 1548, 4096, 2644, 1754, 3773, 1765, 3715, 3065, 3830, 1312, 1880, 2491, 4102].

**algorithms** [3835, 2009, 2010, 4256]. **Alias** [2234, 2997, 1409, 1008, 924]. **alignments** [1902]. **All-Digital** [3379, 3507]. **All-Optical** [3707]. **alla** [471]. **Alleged** [2614]. **Alley** [2006, 1889, 2014]. **Allocation** [647, 691, 733, 2698, 3457]. **Almost** [3027, 3690, 1492, 4059]. **Along** [3978]. **Alternating** [1364, 3138]. **Alternative** [3575, 827, 1954, 2644, 2832]. **Alternatives** [2484, 1234, 164, 50]. **Alto** [4334, 4248]. **always** [3781]. **AMD** [3995]. **Amer** [1278, 1043]. **America** [3733]. **American** [4137, 4204, 4132]. **Amiel** [319]. **Among** [2452, 1543, 285, 848, 1916, 2095, 2096, 2480, 2511]. **Amplification** [2652, 2827]. **Amplified** [3524, 3676]. **amplifier** [3538, 3539]. **Amsterdam** [4177, 4339]. **Anal** [939]. **analiz** [352]. **Analog** [355]. **Analog-Digital** [355]. **Analogue** [197, 1130, 554]. **analyse** [4145]. **Analyses** [1829, 3085]. **Analysis** [1688, 3162, 4295, 3165, 3924, 3167, 2343, 4106, 2155, 949, 950, 995, 3996, 760, 3561, 996, 1217, 3887, 1919, 405, 4132, 1621, 1164, 2060, 3110, 1120, 1523, 2614, 3329, 2617, 3038, 2622, 3205, 3688, 778, 2880, 962, 1962, 3820, 965, 923, 2545, 2205, 4035, 970, 3899, 2387, 4324, 788, 448, 971, 3463, 3239, 874, 1988, 1475, 4079, 3362, 1574, 3868, 839, 1993, 4054, 4207, 843, 55, 57, 978, 3502, 494, 2007, 2997, 4138, 1485, 1793, 291, 265, 3288, 3402, 3525, 754, 1208, 4145, 1689, 1028, 2441, 2519, 3098, 403, 2167, 4066, 1813, 3750, 3438, 2178, 1169, 1230]. **analysis** [1231, 1353, 2368, 2065, 1634, 3588, 2291, 2374, 1369, 3211, 1242, 2199, 3599, 2544, 1851, 1044, 1644, 2546, 3051, 3055, 2974, 3607, 4077, 789, 1754, 2816, 2979, 3467, 2743, 1017, 1088, 3473, 3364, 1766, 1253, 1309, 2655, 3912, 3370, 1995, 666, 460, 2122, 747, 264, 2127, 2675, 2681, 3084, 3149, 209, 1593, 2427, 2428, 3395, 3643, 20, 236]. **Analytic** [2048, 3597, 1091]. **Analytical** [2612, 357, 4335]. **analyze** [4063, 4003]. **Analyzing** [2256, 2280, 1375, 2203]. **anaylsis** [500, 619]. **Andersen** [238]. **Anderson** [1046, 2555]. **Android** [3751]. **Angeles** [4130, 4179, 91]. **angenäherten** [278]. **Angle** [518, 626]. **animals** [1907]. **Ann** [696, 697]. **Annealing** [3819, 3077]. **Annual** [4273, 4278, 4283, 4293, 4298, 4334, 4312, 4200, 4161, 4196, 4206, 4229, 4238, 4242, 4263, 4318, 4333, 4170, 4296, 4272, 4259, 4211, 4152, 4220, 4166, 4171, 4176, 4182, 4187, 4192, 4203, 4221, 4226, 4235, 4253, 4260, 4222, 4262, 4158, 4164, 4179, 4184, 4190]. **Anosov** [3914]. **ANSI** [2965, 2638, 2736, 3054, 3126, 3768]. **Anthanasios** [390]. **Antithetic** [726, 733, 2088, 2447]. **Antonio** [4252]. **Antony** [4261]. **ANTS** [4246]. **ANTS-III** [4246]. **any** [350, 2466, 76, 618]. **Aperiodic** [3885, 2801, 3761, 3260, 1606]. **APG** [1877]. **apparent** [840]. **Appearing** [1551]. **Appears** [1359]. **Appendix** [2965]. **Appl** [2321, 3734]. **Apple** [1154, 1270]. **Applesoft** [1358]. **applicability** [1162]. **Application** [3535, 853, 3167, 4167, 908, 2866, 4177, 304, 2797, 2720, 3210, 4300, 1636, 2303, 2547, 2387, 44, 3243, 3779, 2486, 3724, 3081, 889, 290, 3273, 3392, 2026, 2335, 4028, 3301, 2940, 2038, 3564, 2870, 4316, 3448, 2804, 3595, 3596, 3459, 1132, 3709, 2112, 1199, 2914, 707, 980, 747, 1260, 2496, 137, 3277, 1601, 3289, 4086, 2777, 7, 4087]. **Application-based** [1636, 3709]. **Application-Specific** [4300]. **Applications**

[1156, 3795, 4188, 2934, 3416, 180, 820, 2260, 3180, 2446, 2047, 2701, 3102, 4153, 1930, 3028, 1172, 3040, 3114, 514, 2880, 2962, 3454, 156, 1844, 2470, 519, 1856, 2313, 3233, 1248, 1976, 3615, 2097, 806, 2667, 3498, 2841, 4291, 2673, 4020, 538, 2424, 2245, 4145, 4245, 3176, 3, 2785, 3889, 4237, 1718, 636, 4274, 1817, 2271, 2183, 2186, 2284, 1074, 1436, 1633, 4299, 3332, 3333, 3936, 4286, 2805, 3343, 4257, 2079, 2198, 3765, 2647, 3609, 2212, 3468, 2820, 3250, 1568, 803, 1660, 2567, 2413, 2571, 1593, 1594, 2684, 1104, 3284, 2249, 1266, 1059, 3769, 4145, 2147]. **Applied** [4142, 4137, 4132, 3321, 4315, 1174, 4336, 2316, 4207, 2236, 499, 320, 42, 242, 483, 4152, 4255]. **Applying** [3546, 2111, 3799, 4013]. **Approach** [1498, 3675, 72, 2060, 3579, 4093, 778, 3127, 526, 3475, 2407, 4337, 290, 2593, 4063, 1819, 4003, 2455, 3235, 3865, 1569, 2992, 570, 1055, 1590, 3985, 2687, 2586]. **approaches** [2774]. **Approximate** [903, 2047, 4092, 1641, 2396, 1995, 622, 706, 4117, 574, 954, 278, 424, 751, 1792, 2848]. **Approximately** [511, 1847]. **Approximating** [2527, 4092, 3602]. **Approximation** [2266, 2450, 2469, 1461, 1550, 2925, 2588, 1904, 3197, 1293, 4007, 1134, 3865, 1260, 752]. **Approximations** [145, 2883, 1083, 486, 1033, 3120, 1261, 3086, 3152]. **April** [4167, 4137, 4177, 4200, 4316, 4148, 4265, 4150, 4211, 4185, 4186]. **Arbitrary** [2262, 835, 1575, 3156, 992, 3965, 3997, 3099, 199, 1740, 3632, 3272, 1321, 715, 3679]. **Archimedean** [3412]. **Architecture** [2934, 2878, 4010, 3500, 2133, 3403, 3686, 3947, 1594]. **Architectures** [1493, 4300, 3905, 3790]. **arcsine** [4037]. **Area** [241, 1940, 3878, 3162, 2256]. **Area-Efficient** [3878, 3162]. **areas** [4294, 4262, 2814]. **ARENA** [4295]. **Argument** [688]. **arguments** [432]. **Arisen** [1]. **Arising** [1281, 1564, 3649, 3734]. **Arithmetic** [2348, 2440, 2171, 770, 3822, 2815, 740, 3870, 228, 370, 4219, 3656, 3, 1633, 1440, 1257, 1577, 2239, 1884, 1486, 1602]. **arithmetical** [297]. **arithmétiques** [3]. **Arizona** [4161, 4202]. **Arlington** [4220, 4254, 4269, 4163, 4210]. **ARM7** [3196]. **Arnold** [3016]. **arranged** [22]. **arrangements** [59]. **Array** [1418, 3423, 2650, 1404]. **Arrays** [1520, 943, 3831, 811]. **arrival** [3692, 2632, 3644, 3399]. **arrivals** [2794]. **Art** [1758, 1780, 3874, 348, 4154]. **Artefacts** [1612]. **Arthur** [3141]. **article** [897, 2321]. **Artifacts** [2793]. **Artificial** [147, 65, 74]. **ARX** [3779]. **Ascending** [2816]. **aSHIIP** [3517]. **ASIC** [2874]. **Aspects** [4142, 4170]. **Asperger** [3072]. **ASR** [1267]. **Assembler** [2290]. **assembly** [3929]. **assess** [1961]. **Assessing** [2203, 2481]. **Assessment** [1407, 2155, 2866, 2707, 1327, 1491, 2373]. **Assignment** [864, 870, 873, 886, 887, 888]. **Assoc** [1278, 1043]. **Associated** [1284, 2836, 3287, 2932, 1036, 22, 256, 426]. **Association** [1855, 4146, 167, 3733, 980, 7]. **associées** [1036]. **Assumption** [3669]. **assumptions** [1533]. **Astronomical** [1442]. **Asymmetric** [706, 3892]. **Asymptotic** [580, 102, 3841, 688, 4077, 1574, 805, 2331, 1603, 56, 2334, 406, 3312, 2528, 2632, 1796]. **Asymptotical** [2953]. **Asymptotically** [296, 3457, 1471, 2406, 670, 3135]. **Asymptotics** [3119]. **asymptotiques** [805]. **Atari** [1472]. **ATI** [3569]. **Atlanta** [4253, 4240, 4168]. **Atomic** [2592].

**atoms** [1199]. **Attachment** [4048]. **Attack** [3159, 3537, 3922, 3661, 2942, 3202, 2649, 2991, 2423, 3557, 3359]. **Attacking** [4073]. **Attacks** [3418, 2786, 2541, 2383, 3788, 3148, 3525, 4026, 3886, 4066, 3930, 3611, 1474, 166]. **Attraction** [1581, 372, 749]. **Attractor** [1710]. **Auburn** [4200]. **auctions** [3329]. **Audio** [3564]. **Auditorium** [4248]. **August** [4294, 4204, 4132, 4222, 4262, 4248, 4257, 4268, 4296, 4147, 4207, 2696]. **Austria** [4157, 4215, 4251, 4207, 4243]. **Authentication** [2036, 3951, 3984, 3389, 3390, 3353]. **autism** [3072]. **Autocorrelated** [1656, 1015, 1047, 1896]. **Autocorrelation** [1624, 328, 654, 798, 799, 1724, 306, 440, 473]. **Autocorrelations** [329, 994]. **Autocorrelazioni** [994]. **Autokcorrelation** [473]. **Autokorrelation** [440]. **Automata** [2352, 3203, 3216, 3138, 2005, 4138, 4106, 1283, 3319, 2876, 1445, 1446, 1536, 1758, 2403, 3473, 2840, 2670, 2763, 2496, 2422, 2018, 1594, 2506, 2584, 1677, 1265, 1266, 2027]. **automata-based** [1445]. **automated** [3946, 1877]. **Automates** [1594]. **Automatic** [170, 1222, 2872, 2535, 2882, 2553, 790, 163, 2534, 2813, 3976, 4078, 137, 176, 4131, 3023, 3101]. **Automatically** [2440]. **Automation** [3337, 4323]. **automaton** [2931, 3981]. **automorphisms** [3813]. **Autonomous** [3517]. **Autoregressive** [1747]. **available** [3261]. **Avalanche** [3385]. **Average** [1812, 2177, 2273, 2274, 2706, 3030, 2754, 2178, 2873, 3697, 2472, 3630]. **average-case** [2178, 3697]. **Averages** [865]. **Averaging** [3819, 284]. **avoid** [1410, 1630]. **Avoided** [1202]. **Avoiding** [3759, 2618, 1833]. **AVX** [3895]. **award** [3622]. **Awarded** [3986]. **Aware** [1682]. **AWC** [1923]. **AWC/SWB** [1923]. **AWGN** [2691, 3613].

**B** [993, 401, 2160, 70]. **Babington** [70]. **Babington-Smith** [70]. **Background** [1799, 666]. **backpropagation** [2968]. **backward** [3122, 3085, 3510]. **bacteriophage** [3653]. **Bad** [2283, 2363, 2950, 4157, 4075, 2305, 2637, 3377, 4085, 3493]. **BadRandom** [4050]. **bag** [1743]. **Bailey** [3746, 3747]. **Baillie** [3754]. **balancing** [1369]. **Ball** [4109]. **ballistic** [2356]. **Baltimore** [4192, 4283]. **Banach** [826, 690]. **Band** [629]. **Banff** [4134]. **Baptist** [4275]. **Barbara** [4222, 4296]. **Base** [1920, 788, 1028, 471, 3754, 2416, 3528]. **Based** [3548, 3661, 3664, 2440, 3994, 2866, 4089, 4065, 4107, 2445, 2787, 1713, 3106, 1001, 2051, 2705, 638, 2793, 3577, 4071, 4122, 3442, 2529, 2715, 2952, 4094, 3819, 3045, 3345, 3220, 2965, 3766, 2469, 3899, 3234, 3771, 4097, 3466, 3859, 3057, 3243, 3867, 2109, 931, 3484, 4054, 3948, 3373, 2005, 936, 3375, 4117, 2673, 3144, 3267, 3083, 3385, 1794, 3276, 3389, 3390, 1057, 3398, 429, 3288, 3792, 3291, 3435, 3411, 3992, 3294, 3161, 3538, 3539, 102, 2931, 3164, 4028, 3885, 4029, 3659, 3886, 3171, 2936, 3747, 2862, 3177, 2785, 3561, 3303, 3304, 3427, 3430, 4090, 1711, 3567, 3196, 3108, 3574]. **based** [4003, 3811, 3578, 3812, 1074, 1235, 2616, 2717, 1075, 2464, 2876, 777, 3333, 1363, 3203, 3446, 3447, 3686, 3335, 1366, 3588, 3592, 3761, 4123, 2963, 1445,

3344, 3762, 1636, 3598, 1298, 1453, 3218, 3221, 4011, 4095, 1378, 2306, 2309, 2310, 2732, 2970, 3939, 2892, 2893, 3056, 3353, 3606, 3704, 1857, 3464, 3611, 3903, 4037, 4115, 2739, 3359, 3708, 3709, 2217, 2751, 797, 3866, 3363, 1257, 1393, 3477, 3478, 3782, 4100, 2909, 2910, 3069, 3370, 3719, 1665, 3256, 2413, 2571, 2489, 3490, 705, 2666, 2761, 3624, 99, 189, 3140, 1201, 2575, 3627, 3628, 4082, 3504, 1261, 3145, 3266, 1263, 2846, 2675]. **based** [2676, 4041, 3636, 3381, 3514, 1486, 3273, 3386, 1148, 1677, 2851, 3392, 3520, 3396, 3644, 51, 3880, 3989, 2687, 3401, 2929, 2777, 4104, 3652, 3531, 3009, 3408, 3793, 3096]. **basée** [2909]. **Bases** [3025, 2722, 1153, 584, 1176, 1177, 1021]. **basic** [1632, 1243, 927, 1034]. **Basics** [3440, 3393]. **Basis** [2854, 466, 497, 3975]. **Batched** [4119]. **Batteries** [4043, 2659, 3946]. **Battery** [2090, 2215, 4098, 4085]. **Battin** [170]. **Bay** [4312]. **Bayes** [1218]. **Bayesian** [585, 3964, 2047, 4005, 3212, 1017, 2988]. **BBC** [1173]. **BCH** [489]. **Be** [1502, 2625, 3623, 1202, 3795, 3676, 470, 608, 3781, 1, 1682]. **Beach** [4242, 4263]. **Beam** [2705, 3381]. **Beat** [3899]. **been** [3795]. **Beginner** [3939, 2653, 2654]. **Begrenzung** [1762]. **Begründung** [571]. **Behavior** [267, 2651, 875, 3378, 2854, 1331, 3926, 2953, 3111, 1737, 3211, 1258, 464]. **behavioral** [4271]. **behaviors** [3818]. **Behaviour** [2177]. **Belgium** [4300]. **Belong** [3917]. **Benchmark** [1636]. **Benchmarks** [2143]. **Benford** [3550, 3419, 3197, 2792, 3328, 3212, 3062, 3246, 2416]. **Berechnung** [278]. **Bergen** [4292]. **Berichtigung** [221]. **Berkeley** [4171]. **Berlekamp** [3018, 3952]. **Bernoulli** [3565]. **Berry** [660]. **beschränkter** [246]. **Best** [2159, 2602, 784, 1871, 839, 1490, 3622, 3787]. **Bestimmung** [1762]. **Beta** [674, 756, 757, 899, 901, 845, 982, 536, 897, 1273, 318, 854, 856, 3805, 331, 3053, 789, 2107, 1099, 981, 717, 1899]. **beta-** [331]. **beta-verteilten** [1899]. **betaverteilten** [331]. **Bets** [3814]. **Better** [3685, 3213, 3046, 3239, 3634, 635, 4059]. **Between** [3766, 2318, 1802, 1499, 2352, 1436, 2877, 2072, 329, 1958, 1959, 2891, 1559, 929, 930, 34, 1205, 4152]. **Beware** [2473]. **Beyer** [1518]. **Beyerm** [2160]. **Beyond** [3037, 3489]. **bezüglich** [742]. **bialgebras** [2641]. **Bias** [3092, 1806, 3593, 4032, 258, 3400, 3648, 1471, 1568, 3644]. **Bias-Free** [3400, 3648]. **Biased** [1107, 2162, 4022, 1212, 1958, 3254, 2328, 2425]. **Biases** [3917]. **Bibliography** [611, 491, 630, 890, 1262, 937, 979]. **bicompositional** [3665]. **Biennial** [4146]. **billion** [1942]. **billion-record** [1942]. **Billions** [4053]. **Biltmore** [4202]. **bimodal** [3892]. **bin** [1482]. **Binary** [376, 469, 1712, 550, 327, 1855, 3608, 3707, 524, 2561, 2562, 2902, 833, 931, 3721, 2417, 2007, 629, 1789, 539, 540, 2593, 1694, 2932, 1698, 3176, 3177, 3301, 3302, 1159, 760, 2441, 2519, 3561, 3997, 1915, 3183, 1617, 3319, 553, 1721, 1825, 92, 727, 116, 412, 443, 2875, 3332, 3333, 3586, 1850, 3973, 3237, 3610, 4016, 1752, 603, 562, 696, 697, 1086, 3910, 1196, 162, 569, 1052, 844, 3383, 2427, 2428, 576, 632, 672, 80, 1898]. **Binomial** [674, 2597, 2288, 1372, 1450, 1551, 3719, 1197, 947, 897, 1839, 1249, 624]. **Binomial-Truncated** [1551]. **Bioinformatics** [3454]. **Biological** [24, 299, 3566, 47, 73, 114, 115, 171, 172]. **Biometric** [2920]. **biomolecular**

[3415, 3533]. **biomolecules** [3377]. **biostatistics** [4284]. **Birds** [4101]. **Birger** [516, 484]. **Birnbaum** [3230, 2838]. **Birthday** [4335, 389, 2634]. **Bit** [1331, 3540, 3017, 3180, 3560, 1424, 3891, 3854, 1846, 2729, 1247, 1300, 3707, 1654, 3717, 3911, 1567, 1659, 2983, 1481, 1053, 3625, 1671, 2673, 3269, 3270, 3271, 3154, 3278, 1893, 3396, 2775, 3008, 1687, 4087, 3992, 3162, 3093, 3660, 3557, 1914, 547, 3188, 763, 548, 3567, 3932, 1514, 3438, 2272, 2526, 764, 2616, 1830, 2956, 775, 3971, 3209, 2380, 3598, 1298, 3346, 3219, 3347, 4052, 248, 3049, 3123, 2552, 3903, 4097, 2741, 2897, 1760, 2751, 3473, 3474, 2568, 3487, 2413, 935, 3262, 1784, 2238, 4082, 2328, 3634, 2846, 3511, 3639, 3987, 3392, 3284, 3652, 2021, 3379]. **Bit-level** [1846]. **Bit-parallel** [2775]. **bit-serial** [1830]. **Bit-wise** [1331]. **bit-XOR** [4082]. **Bitcoin** [3751]. **bitrate** [3638]. **Bits** [3535, 1030, 1106, 855, 1926, 4031, 1777, 3156, 3546, 3960, 1422, 1339, 763, 1073, 3112, 1448, 1373, 3821]. **Bivalent** [1664]. **Bivar** [2405]. **Bivariate** [1500, 1911, 858, 330, 3695, 869, 1054, 3506, 677, 2534, 1249, 2107, 4084, 3916]. **Black** [2944]. **Black-Box** [2944]. **Block** [2629, 1303, 2564, 2991, 3335, 2804, 1643, 3256]. **Blockcipher** [2716]. **blocking** [1234]. **Blood** [339]. **Blum** [2996, 2996]. **bodies** [33]. **body** [2909, 1315]. **Bonferroni** [1219, 784]. **BonGCL** [1380]. **bons** [1380]. **Book** [294, 896, 993, 2147, 543, 401, 2518, 319, 2165, 3101, 3023, 170, 597, 1531, 641, 1007, 3339, 516, 1545, 1546, 560, 3222, 484, 3769, 2903, 390, 1763, 1089, 1870, 2653, 2913, 3078, 1886, 1316, 3733]. **Boolean** [3923, 3846, 3721]. **Bootstrap** [1988]. **Bootstrapping** [3028]. **borehole** [1597]. **Borrow** [1793, 3950, 1891]. **Borwein** [4335, 3746, 3747]. **both** [1792, 2848]. **Bound** [2109, 993, 2055]. **Boundary** [197, 1959]. **Bounded** [2253, 1146, 947, 2594, 1817, 246, 305, 1573, 1772, 3632, 3644]. **Bounding** [2348, 3669, 2028]. **Bounds** [1930, 2054, 596, 732, 784, 2318, 2224, 3254, 2323, 1197, 3378, 812, 1817, 3197, 1518, 1727, 1936, 2357, 2358, 1941, 2301, 1456, 1641, 660, 1570, 3141, 2768, 1602]. **Box** [2944, 4061, 722, 771, 3055, 3613, 3773, 658]. **BPP** [2461, 1557, 2330]. **Bracket** [2923]. **Braid** [2715, 2639, 3057]. **Branch** [2109]. **Branching** [3424, 3802, 3425, 4031, 4111, 3977, 2912, 1719, 1443, 2076]. **Break** [640]. **breakdown** [3612]. **Breaking** [1057, 3917, 2719]. **Bridge** [3688]. **Brilliant** [3898]. **British** [4203, 4298]. **BRL** [118, 129]. **Broadband** [3167]. **Broadcast** [2649]. **Broken** [3159, 3995]. **Brownian** [1623, 3621]. **Browser** [2187]. **Bruijn** [3294, 2252, 2443, 3997, 1364, 519, 3907]. **Brunswick** [4333]. **Bryan** [262]. **BSAFE** [2151, 2343]. **BSDCon** [4276]. **BSTJ** [499]. **BTPEC** [1450]. **Buena** [4225]. **Buffer** [2048]. **buffering** [1676]. **Bug** [3264]. **build** [2978]. **Builder** [3900]. **Building** [1324]. **Built** [3202, 3945, 3148, 1445, 1536, 2403, 3781, 2018]. **Built-In** [3148, 3202, 1445, 1536, 2403, 2018]. **Bulgaria** [4257]. **bulk** [3341]. **Bureau** [91]. **Burlington** [4238]. **Butterfly** [4021]. **Butterfly-patterned** [4021].

**C** [499, 135, 1608, 1691, 3436, 1830, 2194, 2638, 2736, 3054, 3125, 3126, 3768, 2315, 2478, 2743, 3914, 3915, 2236, 1785, 1790, 2012, 3789]. **C-Rand**

[1790, 2012]. **C-systems** [3914, 3915]. **C.** [3178, 447]. **C.449** [2433]. **C21** [880]. **C364** [1499]. **C52** [915]. **C77** [960]. **CA** [4320, 4296, 4233, 4227, 4188, 4276, 2510, 3157]. **CAB** [322]. **Cache** [3983]. **Cache-Efficient** [3983]. **Caesar** [2700]. **Calcul** [284]. **Calculate** [723]. **calculated** [87]. **Calculating** [4129, 1013, 1169, 1602]. **Calculation** [1153, 6, 288, 290, 1890, 1808, 278, 574, 2144]. **Calculations** [2592, 349, 119, 347, 504, 1315, 2509]. **Calculator** [131, 2120, 1103]. **Calgary** [4147]. **California** [4171, 4293, 4334, 4312, 4236, 4222, 4179, 4248, 4258, 4259, 4152, 4181, 4130, 4263, 4272]. **Calls** [3690]. **Cambridge** [4311, 4328, 3769]. **Can** [1502, 2625, 1540, 3676, 608, 1]. **Canada** [4203, 4221, 4273, 4298, 4294, 4262, 4147, 4230]. **Canadian** [4134]. **canadien** [4134]. **Cancellation** [3208]. **cancer** [3382]. **Candidate** [4265, 4101, 2500]. **Candidates** [2579]. **Cannot** [3623]. **Can't** [1502]. **Capacitor** [3106]. **capacity** [3643]. **Capital** [4191]. **Captured** [2259]. **caractéristique** [2909]. **Carbon** [3945]. **Card** [3243, 2785, 4316]. **CARDIS** [4316]. **cards** [36]. **Carlo** [4142, 178, 2518, 112, 4314, 4275, 4130, 4301, 4309, 2903, 4231, 4251, 4258, 4280, 4290, 2321, 189, 3078, 4270, 1886, 1797, 1210, 433, 2149, 3169, 349, 2155, 178, 2598, 179, 3094, 212, 3663, 1611, 2258, 1612, 1335, 1700, 2260, 2261, 2694, 3420, 234, 1420, 907, 2163, 3179, 1160, 90, 195, 504, 3566, 1919, 2447, 152, 2050, 3569, 3195, 1286, 4329, 1225, 3682, 197, 3439, 2280, 2364, 2454, 2527, 592, 1290, 3440, 1732, 2186, 2284, 1122, 728, 2370, 2795, 3935, 1236, 198, 352, 220, 1833, 3814, 512, 128, 223, 326, 916, 1836, 514, 2375, 2533]. **Carlo** [3593, 3450, 1179, 1537, 1636, 963, 2727, 156, 157, 1244, 3215, 2198, 1460, 1377, 649, 1013, 2734, 2890, 3227, 3460, 3228, 1186, 3857, 2551, 2640, 3127, 3974, 1978, 2896, 159, 3709, 146, 657, 78, 4133, 3828, 2100, 2101, 3979, 877, 1771, 132, 2909, 492, 1140, 664, 1778, 1996, 1312, 745, 704, 2231, 2117, 2414, 99, 261, 2490, 133, 4156, 4338, 1583, 1672, 2123, 1315, 1883, 3728, 2326, 394, 1146, 713, 1589, 3836, 290, 2847, 2919, 2424, 138, 2923, 1595, 1795, 2507, 2925, 1597, 265, 465, 466, 497, 2029]. **Carmichael** [2899]. **Carnegie** [4150]. **Carnegie-Mellon** [4150]. **Carolina** [4190, 4211]. **carried** [234]. **Carry** [1793, 1893, 2045, 2265, 2799, 2081, 4036, 1095, 1891]. **carry-free** [1095]. **Carus** [3733]. **cascade** [2157]. **Case** [2257, 4030, 521, 1, 2937, 3312, 1812, 2178, 2364, 3697, 3056, 51, 3286]. **cases** [2904, 2915, 3076]. **Casinos** [3898]. **Casuali** [994, 492]. **cat** [3016]. **Cathedral** [4276, 4330]. **Cauchy** [1329, 3675, 2612]. **Cautionary** [1778]. **Cautions** [1270]. **CC0** [3465]. **CCS** [4287]. **CDC** [1128]. **Cdfs** [3642]. **CDROM** [2090]. **Cebysev** [1733, 1240]. **Cell** [3167, 3794, 1365]. **Cells** [4018, 2589, 3756]. **cellulaires** [1594]. **Cellular** [2352, 3203, 1445, 1536, 3216, 3138, 1594, 2027, 4106, 1283, 3319, 2876, 1446, 1758, 2403, 3473, 3981, 2840, 2670, 2763, 2241, 2496, 2422, 2018, 2506, 2584, 1677, 1265, 1266]. **Censored** [867]. **Centenary** [4328]. **Center** [4197]. **Central** [1118, 3062, 3452, 3614, 3861, 2826, 1277, 2612, 2917]. **Centre** [4145]. **centro** [3649, 3734]. **centro-invertible** [3649, 3734]. **centroids** [439]. **Century** [2523, 4250, 2864]. **Certain** [42, 507, 688, 25, 432, 1330, 102, 1923, 2271, 173,

301, 302, 409, 221, 222, 1542, 2634, 1752, 1474, 1564, 709, 1594]. **certains** [1594]. **Certifiable** [3732]. **Certification** [3536, 365, 314, 631]. **Certified** [4124, 3859, 3409, 3749, 4060]. **Cesàro** [48]. **CFTP** [3572]. **ChaCha** [3165, 3174, 3890, 3891, 3597, 3860, 3788]. **ChaCha20** [3855, 3980]. **Chain** [1107, 2598, 1212]. **Chains** [2266, 514, 3212, 664, 2020, 212, 3439, 713]. **Challenges** [4075]. **Chance** [2438, 3623, 470, 247]. **Change** [1920, 3579, 3503, 585, 1017]. **Changes** [2612]. **Changing** [2781, 1880]. **Channel** [996, 3428, 1844, 2522, 2874, 3256, 3643]. **Chaos** [1692, 1710, 3106, 2628, 3220, 2810, 3606, 4281, 2911, 2675, 2676, 3291, 2777, 4028, 3171, 3019, 3567, 3221, 1857, 2823, 3255, 1577, 3370, 3490, 3514, 3277, 2435, 2929, 3531, 3793]. **Chaos-Based** [3106, 3606, 2675, 2676, 2777, 3171, 3567, 3370, 2929, 3793]. **chaos-type** [3277]. **Chaotic** [3545, 1501, 3577, 2077, 2645, 2404, 3249, 3484, 3373, 2673, 3270, 3271, 3278, 2854, 3398, 1684, 3411, 4105, 3992, 3177, 3315, 3576, 2951, 3811, 2616, 2464, 3333, 3448, 3850, 3588, 1444, 3344, 3762, 2891, 3610, 3478, 3782, 1199, 4082, 3380, 3392, 3988, 3396, 3284, 3405, 4087]. **Chapman** [2369]. **Chapter** [3024, 3052]. **Character** [2595, 2755]. **characterisation** [2076]. **Characteristic** [1222, 1306, 1598, 3842, 3965, 3997, 999, 1111, 782, 2909, 2016, 2131]. **Characteristics** [3779, 198]. **Characterization** [2048, 889, 3520, 3170]. **characterizations** [1718]. **Characterizing** [3731]. **Characters** [2902]. **Cheat** [3898]. **Chebyshev** [1453, 3903]. **check** [914]. **Checking** [4007]. **Checks** [2725]. **Chen** [3762, 3782]. **Chernoff** [2318, 2323]. **CHES** [4308, 4268]. **Chi** [827, 44, 1305, 1389, 3475, 88, 1365, 1183, 14]. **Chi-Square** [827, 3475, 88, 14]. **chi-squared** [1365, 1183]. **Chicago** [4182, 4278, 4158]. **children** [3072]. **China** [4275, 4323]. **Chinese** [106, 2767]. **Chip** [3196, 1496, 3187, 4052, 3388]. **chip-scale** [4052]. **chips** [4248]. **chisel** [352]. **Choice** [498, 695, 44, 629, 88, 2633, 2686]. **Cholesky** [980]. **Choose** [839]. **Choosing** [830, 605, 1863, 2820, 974]. **Choquet** [3627, 3628]. **Chosen** [3110, 3860]. **chromatic** [2063]. **Chronological** [630]. **CI** [3544]. **CiE** [4328]. **Cipher** [2930, 3173, 2783, 3667, 1922, 3116, 2629, 3855, 1986, 3130, 3242, 3620, 4303, 2119, 936, 2673, 2928, 3008, 1687, 2804, 3217, 3256, 3832, 2575, 3284]. **Ciphers** [1494, 3166, 3175, 2700, 2786, 3110, 640, 2564, 3780, 2991, 3525, 3325, 3973, 3611, 1474, 1761, 3472, 1668, 4040, 2998]. **Circuit** [2793, 4101, 2993, 3141, 3177, 3290]. **Circuits** [2591, 3923, 1501, 4317, 3156, 3404, 1536, 2740, 2015]. **Circular** [342, 343]. **Circulation** [3820]. **Cirencester** [4288]. **City** [4176, 4254, 4132, 4232]. **claims** [3058]. **Claremont** [4258]. **Class** [1494, 853, 2935, 2549, 3824, 3231, 44, 2214, 1656, 2658, 2119, 2417, 537, 3269, 3651, 1693, 2861, 1343, 1511, 1824, 1836, 3341, 2194, 969, 1857, 1650, 1989, 2410, 1995, 3990, 3406]. **Classes** [2630, 1551, 97, 2493, 88, 1183, 1845, 1646, 3141]. **Classical** [3924, 3419, 3967, 1939, 817, 681, 1741]. **Classification** [1938]. **Classified** [630, 890, 1262]. **classifiers** [3406]. **Classroom**

[400, 583, 298, 517, 389, 366, 369, 3002]. **Clearer** [3337]. **Cleve** [2099, 2651]. **client** [1995]. **client-server** [1995]. **Clipped** [629]. **Clipper** [2097]. **Clipper-like** [2097]. **Clock** [2035]. **Clock-controlled** [2035]. **Close** [2547, 1181, 2730]. **Close-Point** [2547]. **Closed** [710]. **Closer** [3684]. **Cloudier** [3887]. **clubs** [1326]. **Cluster** [1883, 2326]. **Cluster-flipping** [1883]. **clustered** [256]. **clustered-rocket** [256]. **Clustering** [3334, 915, 3331]. **cm** [170]. **CMOS** [3434, 3208, 3484, 3379, 3507]. **Co** [170, 2240]. **Co-evolving** [2240]. **Code** [3297, 2862, 2170, 3321, 1013, 3466, 2236, 3735, 2782, 1002, 3340, 2813, 1978, 2117, 4128, 1089]. **Code-based** [2862]. **Coded** [3251, 3922]. **Codes** [3431, 2700, 1303, 4255, 273, 608, 3866]. **Coding** [2645, 493, 4288, 4292, 4189, 437, 922, 4216]. **Coefficient** [3334, 3312, 40]. **Coefficients** [3193, 1045, 838, 2682]. **Coherent** [1424, 3579, 4054, 3638]. **Coin** [3924, 1107, 2162, 3425, 1806, 2615, 3455, 1469, 163, 1212]. **Coin-Tossing** [1806]. **Coins** [2860, 2542]. **Collatz** [4110]. **Collected** [4138, 2027]. **collecting** [140]. **collection** [4142, 2182, 2281]. **Collector** [144]. **College** [4132]. **Collision** [3668, 2850, 2924, 4090]. **collision-based** [4090]. **Collision-Resistant** [3668]. **collisions** [4049]. **colorectal** [3382]. **Coloring** [2323]. **Columbia** [4203, 4298]. **column** [3155]. **Combination** [953, 2268, 1117, 1118, 1119, 3134, 2121, 429, 2439, 3333, 2309, 1668, 1260, 2927]. **Combinations** [400, 517, 486, 369, 1817, 1126, 2885, 449, 450, 62]. **Combinatorial** [637, 3755, 203, 2395, 1569, 2150, 238, 3584, 774]. **Combinatorics** [4194, 2800]. **Combined** [3336, 3854, 2204, 2474, 2548, 2811, 2767, 1485, 2017, 3645, 3527, 1811, 1945, 1381, 1646, 2206, 2207, 2389, 2477, 2739, 1484, 1675, 2682]. **Combiner** [2423]. **combiners** [1761]. **combinés** [2682]. **Combining** [909, 910, 1618, 3321, 2619, 3195, 3818]. **Coming** [3796]. **Comment** [295, 1615, 170, 2611, 864, 1076, 962, 1041, 1639, 965, 870, 970, 2973, 971, 873, 2664, 978, 888, 880]. **Commentary** [2205]. **Comments** [2861, 3178, 1160, 725, 790, 604, 1786]. **Commitment** [1567, 1659]. **Commodore** [1154]. **Common** [1219, 4005, 513, 1299, 1742, 3129, 1766, 1581, 812, 2196, 1129, 3715, 1872, 1095, 754, 3672, 2602, 2266, 1124, 1735, 917, 778, 733, 923, 1375, 2469, 1871, 2103, 946, 1490, 1686]. **Commonly** [2869]. **Commun** [2069, 2195]. **Communicating** [1322]. **Communication** [587, 4291, 1322, 4108, 1339, 2522, 2874, 3595]. **Communications** [507, 2729, 4287, 4216, 2777]. **Comp** [2160]. **Compact** [2032, 2851, 3090, 3160, 1426, 2540, 3126, 603]. **Companion** [4336]. **Comparative** [1349, 403, 504, 3323, 2134]. **Comparing** [1234, 917, 1843, 2203, 3406]. **Comparison** [673, 581, 1064, 3309, 3935, 3764, 1742, 3227, 2100, 204, 2318, 613, 1091, 704, 2231, 2838, 1686, 1499, 1699, 1507, 594, 595, 1736, 2970, 2551, 3382, 2774, 464, 813]. **Comparisons** [1871, 2103, 1490, 1410, 1766, 1872]. **compatibility** [3744]. **Compatible** [1528, 1558, 3691]. **Competing** [186]. **Competition** [3671]. **compiled** [70]. **Complement** [1130, 740, 480]. **Complete**

[1303, 1023, 3170, 941, 2427, 2863, 2863]. **Completed** [959]. **Completely** [511]. **Complex** [3759, 4029, 685, 4241, 3818, 3879]. **Complexity** [2856, 3013, 1502, 1807, 4065, 3437, 1825, 2960, 4011, 2631, 1856, 1975, 2313, 3233, 3863, 2672, 4150, 1322, 2514, 2156, 1916, 1339, 3932, 3680, 1169, 2956, 2802, 3697, 783, 2969, 3610, 2824, 3131, 1764, 3910, 1569, 3003, 2027, 1898]. **complicated** [2582]. **Component** [1922, 2731, 3066, 3065, 3067]. **Component-by-Component** [2731, 3066, 3065, 3067]. **components** [2811]. **Composite** [3310, 30, 2731, 875, 1588, 2125, 3267, 2169, 1715, 1457, 2124, 1885]. **Composited** [3907]. **Composition** [1950, 2234, 3795, 1250, 850]. **Composition-Alias** [2234]. **Compound** [1282, 2450, 1931, 2060, 2177, 2178, 2273, 2275, 2361, 2998, 3555, 1819, 2059, 2274, 2181, 2183, 2642, 2974, 2656, 80, 2249]. **compressed** [2098]. **compression** [4194]. **Compromise** [3159, 3059]. **Compromised** [3808, 3933]. **COMPSTAT** [4183]. **Comptes** [4134]. **Compton** [378]. **Comput** [2069, 1076, 2195]. **Computability** [4328, 2485, 3366]. **Computable** [3925]. **Computation** [4129, 3927, 4285, 4213, 2164, 2944, 1714, 858, 30, 142, 4323, 330, 1962, 4230, 4115, 4215, 2107, 2110, 3948, 4272, 3292, 947, 4131, 3958, 1274, 2442, 1916, 2624, 2538, 3044, 4098, 1868, 1772, 2008, 895, 4297]. **Computational** [4335, 4307, 2605, 954, 4331, 2484, 2744, 4198, 345, 4019, 4297, 426, 3884, 2940, 1069, 4183, 4003, 4279, 1529, 559, 1753, 4339]. **Computationally** [4207, 4083, 4186]. **Computations** [1160, 415, 1179, 3822, 704, 2578, 2156, 2439, 2521, 728, 1443, 1384, 159, 1573]. **compute** [2814]. **Computer** [579, 674, 992, 1025, 897, 756, 898, 899, 900, 544, 4168, 2787, 1341, 3677, 1164, 4155, 507, 1527, 244, 415, 4148, 4158, 4161, 4164, 4179, 4184, 4190, 4196, 4206, 4229, 4238, 4242, 4263, 4267, 4318, 4333, 3453, 1181, 1182, 869, 780, 829, 871, 1549, 733, 1967, 831, 1386, 604, 338, 360, 1046, 4287, 4170, 1089, 4141, 3716, 4337, 1577, 1091, 4162, 4217, 1481, 1096, 3874, 2576, 1673, 4219, 892, 893, 4150, 1149, 716, 430, 541, 1273, 1697, 854, 1275, 763, 1031, 4261, 3194, 998, 999, 474, 1002, 765, 766, 768, 2460, 4249, 1014, 1043, 2086, 1249, 1978]. **computer** [311, 386, 1134, 456, 834, 1253, 618, 227, 1050, 4149, 1200, 2003, 3725, 1786, 375, 1321, 850, 2460, 4160]. **Computer-Zufallszahlen** [2460]. **Computers** [2251, 4188, 267, 2351, 1806, 2354, 1510, 1034, 1347, 272, 145, 245, 1300, 2977, 282, 187, 204, 740, 206, 1583, 2498, 4138, 1147, 1690, 234, 404, 547, 2263, 1428, 1509, 218, 1071, 1834, 1835, 2070, 1741, 3856, 3941, 1463, 203, 1556, 1980, 341, 147, 663, 4136, 122, 137, 1800, 176, 2069]. **Computes** [4328]. **Computing** [4166, 4171, 4176, 4182, 4187, 4192, 4203, 4221, 4226, 4235, 4253, 4260, 4273, 4278, 4283, 4293, 4298, 4311, 4320, 4327, 4334, 2857, 897, 3091, 3020, 376, 469, 3432, 682, 152, 1816, 1828, 959, 2459, 2530, 1299, 966, 4324, 3236, 119, 1048, 1780, 2840, 4291, 3631, 4218, 3642, 4186, 2590, 212, 3307, 2794, 2191, 4322, 4332, 118, 1129, 96, 129, 3463, 2894, 3827, 3247, 4216, 4231, 1601, 139, 4185].

**con** [471]. **Concave** [2078, 1113, 1955, 2534, 2643]. **Concavity** [2366]. **Concentration** [3929]. **Concept** [385, 387, 37]. **conception** [1594]. **Concepts** [639, 4331, 600, 403, 2186, 2284, 4279, 2074]. **Conceptual** [3537, 4096]. **Concerning** [356, 80, 2803, 188]. **concert** [3070]. **Conclusion** [3337, 2480]. **Concrete** [2040, 3308, 2996, 2157]. **Concurrent** [4188]. **Conditional** [2095, 2096, 2480, 3251]. **conditionally** [3646]. **conditions** [2044]. **cone** [2580]. **Conference** [4234, 4181, 4227, 4240, 4135, 4188, 4254, 4193, 4285, 4236, 4328, 4200, 4316, 4174, 4300, 4323, 4264, 4339, 4324, 4191, 4287, 4250, 4296, 4265, 4202, 4154, 4269, 4163, 4270, 4165, 4297, 4218, 4288, 4224, 4272, 4210, 4225, 4233, 4259, 4211, 4175, 4172, 4237, 4153, 4222, 4201, 4275, 4299, 4286, 4140, 4248, 4257, 4139, 4231, 4251, 4258, 4280, 4252]. **Confidence** [1742, 39, 86, 1641]. **Configurable** [4054, 2589]. **configuration** [1199]. **Confusion** [1669]. **Congrès** [4134]. **Congress** [4134]. **Congruence** [2033, 1093, 1380, 1051, 193]. **congruences** [1354, 189]. **congruent** [2219]. **Congruential** [293, 3013, 267, 545, 2041, 2942, 1624, 1625, 1626, 1629, 1726, 2054, 2177, 2275, 2277, 3027, 3199, 824, 1003, 1037, 1120, 1523, 3580, 1123, 862, 772, 773, 2465, 2879, 2068, 2625, 2960, 866, 327, 2202, 1552, 1382, 1383, 2473, 1747, 2976, 606, 658, 798, 616, 878, 2487, 2985, 662, 2121, 429, 1060, 1209, 1408, 3921, 2160, 1503, 1065, 1422, 2442, 635, 1706, 3304, 1614, 722, 2042, 320, 1923, 1714, 1346, 588, 408, 1430, 2526, 1433, 1517, 1518, 1627, 1628, 1630, 1631, 1724, 1725, 1727, 1728]. **congruential** [1729, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1931, 1933, 1934, 1935, 1936, 1937, 2055, 2056, 2058, 2178, 2179, 2180, 2274, 2276, 2278, 2357, 2358, 2359, 1228, 1288, 1289, 1351, 1352, 2279, 2363, 2364, 2454, 860, 958, 1230, 1231, 1353, 1827, 769, 2953, 3111, 557, 2719, 1363, 2532, 3112, 3204, 4073, 2624, 779, 868, 3343, 357, 2199, 2200, 2302, 3219, 968, 1184, 1745, 3049, 830, 1380, 2206, 2476, 1185, 2312, 2974, 3463, 2213, 2739, 487, 523, 2400, 2650, 2900, 3131, 4038]. **congruential** [457, 3135, 699, 801, 802, 879, 1195, 1391, 1392, 1476, 1570, 2566, 2656, 2657, 2986, 2908, 1398, 1775, 1776, 840, 974, 933, 2915, 2916, 3076, 2325, 2237, 2918, 3787, 989, 4083, 1317, 2998, 3000, 3149, 3384, 3511, 3639, 3003, 3280, 3281, 3282, 3522, 495, 2141, 2430, 2025, 3286, 3523, 2337, 3089, 3990, 233, 2338]. **conjecture** [718, 502]. **conjoint** [4084]. **connected** [3884, 2916]. **connection** [297, 100]. **Connoisseurs** [2628]. **connues** [805]. **Consecutive** [3766]. **Consequences** [1307, 1271, 1413]. **Conserved** [3406]. **consideration** [289]. **Considerations** [469, 2297, 1908, 1005, 1908]. **consisting** [2932]. **Constant** [2591, 2595, 2944, 3156, 4024, 2488]. **Constant-Depth** [3156]. **Constant-Error** [4024]. **Constant-Round** [2944]. **Constantine** [2516]. **constants** [3928]. **Constrained** [3999, 3116, 2128, 3883, 3847, 4012, 3650]. **Constraints** [3816, 1845, 3372]. **Construct** [4046, 1237, 3629, 4062, 1176, 1177, 1385]. **Constructed** [1520, 3183, 3586]. **Constructing** [3022, 3758, 3690, 3213, 3900, 3863, 3449, 74]. **Construction** [1626, 1725, 2797, 2875, 2622, 3205, 3045, 2202, 358, 2731, 2902, 2486, 3066, 2909, 1664, 1671, 3266, 2508, 2776, 1492, 2157, 15, 589, 65, 1965, 2084, 3973,

3065, 3067, 3831, 882, 3632, 713, 2909]. **Constructions** [2716, 2732, 1767, 2984, 1568, 2317, 1768, 3731, 3881, 3534]. **Contactless** [3661]. **Contemporary** [4208]. **Content** [2787]. **Contents** [49]. **Context** [4020, 2167, 3919]. **Context-Driven** [4020]. **context-free** [2167, 3919]. **contiguous** [2080]. **contingencies** [456]. **Contingency** [6, 7]. **Continued** [286, 2947]. **Continuous** [2030, 4044, 3550, 2807, 515, 1960, 1083, 566, 1790, 677, 3439, 1293, 777, 2643, 2644, 1252, 3255, 703, 1321, 3531]. **continuous-time** [3255, 3531]. **Contour** [241]. **contrôle** [763]. **Contributions** [52, 4201]. **Control** [170, 1871, 4020, 3276, 1490, 1686, 1208, 763, 3037, 456, 170]. **Control-variate** [1871]. **Controllability** [862]. **controllable** [2876]. **Controlled** [1364, 2035]. **Controlling** [2050, 2679]. **Controls** [3186, 920]. **Convenient** [3048, 336, 3121]. **conventional** [3164]. **Convergence** [2266, 1970, 1972, 2250, 2049, 382, 1534, 3521, 3523]. **Convergent** [315]. **Conversion** [3103, 4008]. **Converting** [3821]. **Convex** [858, 2632, 3596, 33, 615, 742]. **Convolution** [1551, 2336, 3646]. **convolutional** [3866]. **Convolutions** [688, 2641, 1602]. **Cooperation** [3713]. **Cope** [2510]. **Copenhagen** [4183]. **Coprocessor** [2626, 3763]. **copula** [3158]. **copulae** [3985]. **Copulas** [3158]. **Copyright** [2346]. **CORDIC** [3773, 3835]. **Core** [3196, 4081, 2691]. **Corfu** [4297]. **Corner** [831, 2099, 2651]. **Coronado** [4236]. **corps** [2909]. **Corput** [913]. **Correcting** [4085, 4255]. **Correction** [1278, 3100, 1549, 2431, 1152, 221]. **Corrections** [270, 2884, 929]. **correctly** [1941]. **Correctness** [3955, 1797]. **Correlated** [2855, 2156, 1107, 141, 644, 3816, 599, 925, 2396, 701, 1, 2593, 433, 904, 350, 1212, 1251, 3241, 2405, 227, 2410, 2001, 2843, 1900]. **Correlation** [3537, 2262, 216, 52, 1003, 2617, 244, 2541, 1761, 739, 844, 817, 1802, 499, 681, 1813, 958, 2291, 2374, 559, 483, 2891, 2738, 1136, 1474, 40, 659, 3252, 1775, 667, 1584, 51]. **Correlational** [817, 681, 464]. **Correlations** [759, 2601, 680, 2452, 2072, 2917, 1617, 1344, 1512, 2050, 551, 1433, 2455, 141, 1832, 2297, 1846, 1398, 1883, 2327, 3268, 2329, 2511]. **corrèlès** [904]. **Correspondence** [676, 2077, 1863, 2120]. **corresponding** [712, 1145]. **Corrigenda** [2160]. **Corrigendum** [2287, 1043, 2560, 1389, 539, 632, 3734]. **Corroboration** [2787]. **Cosmological** [3769, 3615]. **Cost** [3372, 3292, 1016, 3777, 3617, 2491, 3382]. **cost-effectiveness** [3382]. **Costruzione** [471]. **Countable** [3]. **Counter** [3199]. **Counter-Dependent** [3199]. **Counting** [2871, 1850, 1752, 2233, 3147, 1904, 1847]. **Counts** [3385, 1365]. **Couple** [2673]. **Coupled** [3577, 3271, 3576, 3219, 3478, 3270]. **Coupling** [3460]. **Coupon** [144, 140]. **courbe** [35]. **course** [4204, 4147]. **Courses** [3321, 265]. **Covariance** [423, 53]. **covariates** [3920]. **covering** [3831]. **coverings** [431]. **covers** [3708]. **Cox** [3920]. **CPU** [3969]. **CPUs** [3995, 3799, 1784]. **crack** [2879]. **cracked** [608]. **Cracking** [933, 3494, 3495, 3496, 3497, 842]. **Cramér** [294, 560]. **Crash** [4032]. **CRAY** [2451, 1399]. **CRAY-System** [2451]. **Create** [2787, 1773]. **created** [2324]. **Creates** [2911]. **creating** [2173]. **creation** [2401]. **Criteria**

[1407, 1491, 3029, 522, 1475, 2841, 102, 2391, 2640, 3381]. **Criterion** [1]. **Critical** [2787, 1715, 4053, 3100, 1714]. **Crofton** [2814]. **Cross** [1802, 3577, 3270, 3271, 3576, 559]. **Cross-correlation** [1802, 559]. **Cross-Coupled** [3577, 3271, 3270, 3576]. **cryogenic** [1496]. **Cryptanalysis** [2779, 2937, 3664, 3667, 1337, 1704, 3890, 2943, 3104, 3105, 3320, 3031, 2711, 2715, 2720, 2881, 3860, 1986, 2752, 3008, 2941]. **Cryptanalytic** [2383]. **CryptMT3** [3242]. **CRYPTO** [4169, 4222, 4296, 4180, 3159, 3043, 2626, 4081, 4066, 4128, 4159, 4195]. **Cryptoanalysis** [2721]. **Cryptographic** [1269, 1328, 4043, 3416, 2257, 4167, 3180, 3887, 3671, 4177, 3313, 1925, 3196, 2360, 1172, 2878, 3040, 3763, 3225, 2976, 1979, 2404, 2660, 1669, 2667, 3498, 2841, 3629, 3081, 3380, 3273, 1057, 4105, 2147, 4028, 3176, 3301, 2785, 3748, 3333, 1175, 3936, 2804, 1447, 2513, 2544, 3459, 1752, 1250, 2212, 3370, 2489, 2914, 4102, 4104, 3534, 4308, 4268]. **Cryptographically** [3295, 3413, 3545, 1030, 1106, 1378, 3487, 3074, 1102, 2778, 4067, 3850, 4095, 1317, 1908]. **cryptographically-secure** [4095, 1908]. **cryptographiquement** [1908]. **Cryptography** [4189, 2349, 908, 1710, 2701, 3102, 3034, 918, 2536, 2645, 3057, 3470, 1655, 2316, 2573, 2232, 2236, 4291, 2673, 4292, 1687, 2448, 4326, 4294, 2462, 4262, 3344, 1739, 1553, 1991, 2413, 2571, 3493, 2496, 3635, 2675, 3392, 3284, 4288]. **Cryptology** [1156, 4169, 4159, 4177, 4178, 4198, 1141, 4208, 4167, 4222, 4195, 4296, 4180]. **CryptoQNRG** [4102]. **Cryptosystem** [3386, 1378, 3866]. **Cryptosystems** [881, 2471, 1393, 3277]. **Crystal** [4254, 54, 4269, 4163, 4210]. **crystallography** [3343]. **CSD** [2125]. **Cuba** [2958]. **cube** [424, 1593, 808]. **Cubic** [1625, 2275, 1879]. **CUDA** [3657, 3210, 3349, 3726, 4041]. **Cumulant** [1713]. **Cumulative** [4000, 4092, 3695, 3696, 2815, 2029, 578]. **CURAND** [3657, 3726]. **Current** [3220, 1189, 3221]. **Current-Mode** [3220, 3221]. **curve** [3098, 2893, 3142, 35]. **Curves** [3554, 2068, 2960, 2672, 3112, 4073, 1638, 1301, 34, 4061]. **Customer** [2787]. **Cusum** [1208]. **Cusum-Shewhart** [1208]. **cut** [2619, 3765]. **Cyber** [1128, 1419]. **CYBER-205** [1419]. **Cycle** [1038, 1867, 1324, 3182, 3965, 2703, 2788, 800]. **cycles** [224, 2899]. **Cyclic** [919, 806, 1737, 3358, 4087].

**D** [896, 1833, 3203, 3951, 3984]. **D-PUF** [3951, 3984]. **D.** [3586, 249, 3237, 1754]. **D.C** [4285]. **d.f** [247]. **Daemon** [2692]. **Dagpunar** [1545, 1531, 1546]. **DAGs** [2080]. **Dallas** [4165]. **Dana** [4312]. **Dances** [3165, 3597]. **dangers** [1427]. **dans** [2909]. **DAP** [1204]. **d'après** [698, 737]. **Dark** [3385, 4066]. **Darling** [2555, 1046]. **Data** [949, 950, 995, 587, 2449, 640, 3591, 962, 867, 2962, 1844, 965, 1462, 970, 788, 971, 791, 3475, 3476, 841, 1019, 978, 1673, 4224, 1488, 3795, 4135, 1028, 3847, 439, 42, 1830, 3444, 3331, 3448, 3592, 2298, 2538, 3044, 1845, 2203, 797, 1668]. **Data-Oriented** [3475, 3476]. **data-parallel** [1830]. **Database** [4212, 2048, 4310]. **databases** [2065, 1942]. **datasets** [2098]. **Day** [4085].

**dbC** [1830]. **DC** [4142, 4223, 4250, 3733, 4212, 4191, 4175]. **DDH** [3505]. **Deák** [1763, 1870]. **Dear** [2125]. **Debian** [3159, 3264, 3880]. **Debiasing** [4022]. **Decay** [2917, 2926]. **December** [4181, 4227, 4240, 4193, 4236, 4275, 4264, 4191, 4250, 4202, 4154, 4269, 4163, 4288, 4210, 4225, 4175]. **decentralized** [3949]. **Decimal** [293, 1642, 2981, 131, 81, 87, 79]. **Decimals** [288, 15, 750]. **Deciphering** [968, 1184]. **decision** [1218, 4139, 1320, 3401]. **Deco** [2153]. **Decoding** [2185, 489, 3729]. **Decomposition** [1917, 593, 3737, 2033, 980, 2769]. **decreasing** [1135, 3632]. **DECsystem** [914]. **DECsystem-10** [914]. **defects** [817, 681, 3129]. **defined** [1417, 332, 3068]. **Definite** [2470, 1215, 99]. **Definition** [533, 534, 388, 570, 1055]. **Definitions** [1616]. **deformed** [2574]. **Degree** [3030, 3465, 3251, 2939, 764, 2873, 3238, 3479]. **Degrees** [1738, 1855, 1803, 350]. **Del** [4236]. **Delay** [996]. **Delayed** [833, 3903]. **delays** [2000]. **Delegation** [3999]. **delta** [1417]. **demands** [774]. **Demons** [3683]. **Demonstrating** [1427]. **Demonstration** [3637, 3638]. **Demonstrations** [163]. **Deng** [2887]. **denoising** [4086]. **dénombrable** [805]. **dénombrables** [3]. **dense** [1904]. **d'ensembles** [2909]. **denses** [178]. **Densities** [1112, 2366, 688, 2588, 2270, 3117]. **Density** [2303, 453, 718, 3841, 1504, 2698, 1343, 3433, 1113, 3117, 2738, 1251, 255, 1135, 425, 2029]. **denumerable** [805]. **Department** [4150]. **Dependence** [558, 1366, 868]. **Dependencies** [4064]. **Dependency** [2348, 4076, 1652, 2421, 1602]. **Dependent** [3550, 1500, 3199, 298, 1084, 538, 944, 1600, 753, 1696, 1958, 964, 1453, 4076, 3612, 2397, 3781, 1199, 2329, 3395, 3920, 2028]. **deployed** [3493]. **deposition** [2356]. **Depth** [2591, 3156]. **Derandomization** [2461, 2340, 3697]. **Derflinger** [3023]. **Derivation** [3419, 3185, 4123]. **Derivative** [2266, 1970, 3709, 3775]. **Derived** [3721, 1712, 4078, 2494]. **Describe** [1502]. **Description** [129, 666, 804, 158, 160]. **Design** [2339, 3537, 3295, 3413, 2931, 3167, 467, 2445, 1927, 2703, 3193, 4067, 1164, 2793, 3575, 4122, 3684, 304, 2878, 645, 3043, 3595, 3223, 2967, 2388, 519, 4097, 3466, 3906, 522, 3251, 2655, 4054, 3490, 4117, 3729, 3284, 3527, 1208, 3529, 3407, 3570, 3544, 3561, 2544, 834, 3255, 3513, 1594, 1104, 1601, 4215, 4138]. **Designed** [864, 870, 873, 886, 887, 888, 3391]. **Designing** [3992, 3428, 1355, 3472, 2406, 3235, 2018]. **Designs** [4303, 3241]. **desired** [667]. **Desktop** [1034]. **detecting** [585]. **Detection** [3202, 3579, 3689, 3362, 3948, 3598]. **Detector** [3845, 3899, 3578, 3624]. **Detector-Based** [3899]. **Detectors** [3508]. **Determinants** [2459]. **Determination** [198, 244, 833, 1408, 1159, 551, 16, 17]. **Determinazione** [17, 16]. **Determine** [2787, 867]. **Determining** [19, 1762]. **determinism** [1797]. **Deterministic** [4028, 3017, 4107, 4071, 274, 300, 3441, 3851, 3701, 3717, 2911, 2493, 3879, 3093, 3660, 3557, 3438, 2527, 2719, 3972, 627, 2846, 3279, 62]. **dev** [2780, 2934, 3750, 2839]. **developer** [3060]. **Developing** [4125]. **Development** [272, 4214, 2815, 4080, 1588, 1619, 1584, 1885]. **Developments** [900, 3931, 4121, 871, 2105, 4151, 1864, 989]. **deviate**

[1041, 364]. **Deviates**
[1025, 436, 330, 2543, 829, 648, 1855, 187, 204, 148, 393, 2665, 1056, 3794, 1802, 350, 182, 141, 771, 481, 158, 160, 1578, 3075, 191, 70, 168]. **Deviation** [2083, 382, 3726]. **Deviations** [3423, 1, 1581, 247, 2217, 35]. **Device** [1079, 3951, 3984, 3730, 3567, 3518]. **Devices** [3801, 3689, 4053, 3906, 3909, 3187, 3752, 3621, 2839]. **Devroye** [1316]. **diameter** [1959]. **diaphony** [2292, 2377, 2087, 3463]. **Dice** [3249, 3812, 2542, 3732, 167]. **DiceHash** [3190]. **Dickson** [3013, 3036]. **did** [3966]. **Diego** [4293, 4181, 4227, 4312]. **DIEHARD** [2215, 2090]. **Dieharder** [3559, 3803, 4085]. **dielectric** [3612]. **Dieter** [897]. **Difference** [2266, 197, 1829, 276, 20]. **Differences** [1520]. **Different** [2722, 3066, 2231, 157, 2476, 2811]. **differentiable** [3596]. **Differential** [3890, 2943, 2269, 2881, 3220, 2752, 3779, 1361, 3221, 138]. **Differentials** [3891]. **Difficult** [2742]. **Difficult-to-Pass** [2742]. **Diffie** [2764]. **diffusion** [3120]. **diffusions** [2447]. **digamma** [1720]. **Digit** [266, 432, 1609, 3301, 273, 2085, 3710]. **Digital** [4129, 3180, 4065, 550, 3025, 4314, 3573, 1932, 2793, 272, 2709, 3029, 639, 3688, 355, 145, 415, 245, 3455, 2387, 2645, 604, 655, 3470, 1306, 204, 529, 881, 2325, 2417, 4291, 3379, 3641, 430, 541, 1495, 2032, 4131, 2346, 234, 404, 2173, 553, 1721, 1722, 1115, 4330, 218, 2706, 1071, 3445, 3595, 2203, 203, 1857, 834, 147, 1394, 1768, 2832, 4136, 3507, 2929, 4087, 895, 4140]. **digitale** [2173]. **Digitalized** [3430]. **Digitalrechnern** [895]. **Digitization** [2404]. **Digits** [103, 108, 109, 110, 111, 123, 124, 125, 126, 237, 63, 144, 3046, 1013, 524, 285, 259, 1019, 148, 393, 2665, 629, 168, 3004, 71, 89, 636, 81, 91, 92, 83, 93, 94, 2961, 76, 1542, 603, 562, 696, 697, 1086, 87, 130, 162, 2663, 530, 1052, 79, 373, 2686, 672, 177, 100]. **digraph** [3294]. **Dimension** [3389, 3390, 1036]. **Dimensional** [270, 196, 201, 3213, 921, 3216, 1858, 1558, 205, 54, 2017, 3651, 718, 1808, 1811, 1343, 2703, 2788, 3439, 221, 222, 2213, 739, 2409, 3068, 188, 3077, 2326, 3082, 3836, 2584, 2144, 2338, 808, 3394]. **Dimensionality** [3026]. **dimensionally** [2402]. **dimensions** [2250, 693, 731]. **Diode** [3771]. **Dipole** [648]. **Dirac** [11]. **Direct** [1159, 761, 2271, 76, 3786, 577]. **directed** [1907, 1959, 2327, 2015]. **Directions** [4150]. **Dirichlet** [3665, 3805, 2433]. **Disappearance** [2421]. **discarding** [2511]. **Disclosure** [4020]. **DISCO** [4215]. **discontinuous** [2258, 1171, 190]. **Discrépance** [1036, 542]. **Discrepancies** [1890, 2299, 2334, 2429]. **Discrepancy** [2150, 3025, 1816, 2054, 2273, 1731, 2712, 2620, 1946, 1947, 2073, 3045, 615, 2225, 2407, 2231, 3144, 3267, 3378, 2013, 1318, 1592, 1794, 2335, 1327, 1408, 1503, 907, 1701, 1909, 1808, 4314, 1627, 1628, 1727, 1729, 1818, 1822, 1933, 1936, 2055, 2357, 2358, 1521, 173, 301, 302, 409, 3041, 2191, 732, 1185, 2472, 1463, 2551, 2087, 2814, 2974, 2894, 2822, 454, 455, 617, 1255, 1308, 1390, 1570, 1767, 1768, 2322, 3723, 3145, 3266, 3632, 34, 2129, 2026, 399, 542, 2144, 1036, 742]. **Discrete** [4220, 2030, 1105, 2152, 2596, 2933, 3414, 2266, 1221, 1620, 1164, 3201, 3028, 639, 859, 1121, 2529, 2952, 3970, 3852, 1368, 1082, 869, 2898, 3132, 2318, 2755, 2411, 1091, 841, 1583, 1101, 1203, 2997, 1790, 4021, 3002, 851,

3398, 812, 2336, 3956, 3992, 3171, 952, 1008, 1955, 2193, 1452, 1963, 4095, 924, 2643, 311, 1865, 618, 4154, 1094, 1880, 713, 1590, 1594, 715, 2775, 1605, 2959]. **Discrete-Event** [1105, 2152, 2596, 2933, 3414, 1164, 1452]. **Discrete-Time** [2266, 3171]. **discreteRV** [3852]. **discrets** [1594]. **Discriminating** [2877]. **discriminatory** [3395]. **discs** [941]. **disjoint** [1916]. **disjunctions** [1913]. **Disk** [1925, 2994]. **Diskrepanz** [742]. **Diskret** [3076]. **Disney** [4225]. **Disorder** [54, 3072]. **Dispersion** [1110, 1390, 2329]. **dissipative** [3737, 3546, 3621]. **Dissociated** [2450]. **dissociation** [3072]. **Distance** [3669, 2714, 3766, 1559, 3365, 742, 3880]. **Distance-Bounding** [3669]. **distances** [3546, 1714, 1715]. **Distanz** [742]. **Distinct** [1520, 960]. **Distinguishers** [3508, 2804]. **Distinguishing** [2623, 2637]. **DistMe** [3258, 3724]. **distorting** [1047]. **distribute** [4118]. **Distributed** [400, 2251, 4312, 544, 3423, 1707, 2039, 196, 637, 2365, 323, 2288, 1943, 201, 3693, 2883, 3820, 1744, 1747, 607, 563, 2323, 3720, 1197, 369, 1146, 2588, 3794, 634, 316, 3958, 1497, 3164, 178, 3094, 318, 3179, 214, 3313, 1513, 43, 1514, 2455, 1355, 2800, 687, 1238, 1362, 479, 306, 3452, 331, 1297, 3456, 1011, 1466, 2816, 2979, 1756, 226, 3908, 2651, 2000, 807, 1205, 1892, 714, 1489]. **Distributing** [3909]. **Distribution** [432, 349, 819, 468, 3554, 720, 1109, 2866, 169, 2265, 953, 2524, 858, 552, 638, 2276, 2278, 3027, 3199, 3028, 1117, 1118, 1119, 1121, 2714, 2369, 864, 323, 827, 4092, 304, 770, 2288, 2465, 2959, 2372, 1076, 2960, 3760, 867, 328, 1371, 1450, 3695, 3696, 2198, 3897, 870, 648, 561, 649, 3048, 925, 3825, 2815, 1133, 695, 873, 972, 2818, 86, 4038, 4116, 1048, 563, 40, 3251, 616, 2487, 2754, 2985, 1774, 2320, 700, 59, 3719, 2759, 259, 3258, 668, 977, 2838, 1581, 2762, 531, 669, 370, 884, 983, 886, 887, 207, 3080]. **Distribution** [846, 2764, 3631, 888, 889, 463, 396, 536, 891, 122, 2017, 3287, 2590, 633, 1409, 3884, 903, 1906, 3665, 854, 952, 1215, 240, 679, 3847, 2868, 1811, 406, 3312, 857, 1507, 954, 1718, 3807, 4047, 636, 4070, 554, 1165, 2058, 3574, 765, 766, 2064, 1234, 1072, 199, 2532, 246, 3118, 3453, 84, 39, 17, 85, 924, 2082, 694, 3047, 3121, 2083, 3053, 3461, 3230, 734, 735, 3943, 1252, 1982, 1047, 2907, 2829, 660, 661, 699, 743, 801, 2565, 2566, 2656, 2657, 2986, 929, 930, 618, 2107, 566, 121, 665, 667, 703, 705, 2666, 2761, 2988]. **distribution** [3724, 976, 3374, 1021, 625, 190, 371, 1260, 1261, 461, 3630, 34, 35, 424, 1887, 2497, 1264, 164, 990, 1024, 375, 1680, 13, 5, 14, 2927, 56, 3650, 578, 3892, 3397]. **Distribution-Free** [720, 468, 1234, 164]. **Distributione** [17]. **Distributions** [579, 674, 1025, 2030, 1804, 2262, 1284, 2047, 1221, 2869, 2945, 507, 1530, 3594, 2078, 2470, 1461, 1550, 1855, 3231, 2396, 657, 3828, 1575, 528, 1019, 4056, 2576, 69, 1790, 4021, 2020, 851, 266, 3435, 947, 992, 1329, 897, 719, 1275, 151, 2600, 3099, 1341, 1429, 1720, 1815, 3317, 1162, 64, 2184, 3934, 594, 595, 555, 2528, 1171, 960, 1008, 2188, 2877, 1955, 2193, 2534, 3692, 2538, 3044, 1740, 3212, 515, 1960, 3120, 1963, 22, 1015, 969, 1853, 2643, 2219, 2907, 741, 2410, 1578, 4147, 1399, 1094, 1880, 1314, 712, 1145, 1882, 1024, 3275, 1149, 1321, 715, 2138]. **distributions** [752, 2775, 2029, 2338, 3679, 294, 560]. **disturbance** [1157]. **Divergence** [3391]. **Divergent** [3361]. **Diversity** [2005]. **Diversity-Based** [2005]. **Diverted** [339]. **Dividing** [4030]. **Divisible**

[3673, 2047, 2836, 3642, 2784, 2410]. **Division** [4140, 1194, 1917, 61, 1792, 2848]. **Divisor** [513, 1299, 1129, 1095]. **divisors** [754]. **Do** [1123, 2623, 2378]. **Document** [3321]. **Documentation** [2895, 4079]. **Does** [2748]. **Doing** [4055, 4058]. **Domain** [1581, 3629, 3737, 1868, 3517]. **Domains** [370, 372, 749, 3132]. **Domenico** [3769]. **Dominated** [3687]. **Donald** [3874]. **Don't** [3922, 2375, 3863]. **Dopant** [3745]. **Dopant-Level** [3745]. **Dorothy** [2160]. **Dose** [339]. **dot** [1758]. **dot-patterns** [1758]. **double** [3303, 3572, 3333, 4008, 3599]. **double-precision** [4008]. **double-scroll** [3303]. **doubly** [462]. **Down** [3796, 506, 1006, 575, 810, 475, 53, 3862, 59, 56]. **Draft** [3911, 2111]. **DRAM** [3951, 3984]. **drastic** [2847]. **Draw** [4021, 2886]. **Drawbacks** [2285]. **Drawing** [4072, 36]. **DRBG** [3955]. **Dress** [3159]. **Drive** [2787, 3188, 2994]. **Driven** [4020]. **Drives** [1925]. **DRM** [2787]. **Drones** [4108]. **DSS** [2257]. **Dual** [3966, 4097, 4101, 3188]. **dual-drive** [3188]. **Dual-Mode** [4101]. **Dual-ring** [4097]. **Duality** [1229]. **Dudewicz** [1089]. **Due** [3593, 649, 1612, 2908]. **DUHK** [3922]. **d'un** [805]. **d'une** [805, 1594]. **DUPER** [656]. **Durbin** [956, 1118]. **Durbin-Watson** [1118]. **durch** [11]. **Dyadic** [2292, 1254]. **Dynamic** [2065, 3451, 1754, 1865, 2401, 3912, 2847, 4029, 3551, 3209, 3701, 2751]. **dynamic-multithreading** [3701]. **Dynamical** [3234, 3733, 3546, 1277, 3813, 3479, 3718]. **Dynamics** [4142, 1623, 3759, 2428, 3737, 1951, 11, 3377, 3621]. **Dyson** [2345].

**each** [141]. **Early** [1160, 1179]. **Easily** [818, 906, 1135]. **East** [4146]. **Easy** [1524, 3591, 2293, 2376, 2115, 3626, 4083]. **Easy-to-Use** [3591]. **Eat** [3808, 3933]. **Eaton** [1817]. **EC** [3966]. **écarts** [35]. **échantillon** [805]. **échantillonnage** [284]. **Econometric** [2483, 1157, 3360]. **Econometrics** [4307]. **Economical** [1221, 3883, 997]. **Ecrypt** [2930]. **EDF** [1263]. **Edge** [1828, 2323, 4117, 1916]. **edge-disjoint** [1916]. **Edgington** [1007]. **Edition** [1967]. **editor** [2355, 476, 496]. **Editorial** [3796]. **editors** [3076]. **Édouard** [2432]. **Education** [4319]. **Edward** [1089]. **EEG** [3804]. **Effect** [3431, 2174, 378, 2188, 4050, 4096, 1132, 2327]. **Effective** [3026, 1010, 2999, 1614, 3250, 533, 534]. **Effectiveness** [946, 4204, 3382]. **Effects** [3393, 3672, 3007]. **effektiven** [533, 534]. **efficiencies** [164]. **Efficiency** [1233, 1124, 3449, 3758, 2964, 3257, 3161, 2049, 221, 222, 4097, 1685]. **Efficient** [1329, 2342, 3545, 3415, 3747, 3555, 1109, 2603, 3311, 196, 2522, 2946, 3193, 3677, 2269, 3810, 2707, 2185, 2799, 3850, 3113, 3206, 2191, 201, 3693, 3210, 1447, 3347, 1011, 1247, 1381, 3123, 4076, 3353, 2975, 3972, 1466, 3943, 657, 1192, 1563, 1657, 3618, 2652, 2827, 1568, 2411, 1400, 1669, 3075, 3983, 2669, 1585, 3629, 2328, 1146, 891, 3083, 1675, 1147, 3878, 2507, 2771, 4022, 4061, 1150, 1206, 1681, 851, 1058, 1152, 1267, 4026, 3533, 3435, 3737, 992, 3162, 3840, 2252, 3746, 3960, 2443, 2703, 2788, 1225, 589, 2608, 1632, 3589, 2804, 4098, 3613, 3773, 3774, 2317, 3830, 1484, 3505, 2999]. **efficient**

[3084, 1205, 3275, 3839, 3010, 3679]. **efficiently** [1917]. **EGD** [2692]. **EICGs** [3432]. **eight** [1235]. **Eighteenth** [4171]. **eighth** [4235, 4310]. **Einflusses** [1762]. **Eins** [5]. **electroconvection** [2717]. **electroencephalogram** [3804]. **Electromagnetic** [3661, 3886]. **Electromagnetism** [4277]. **Electron** [349, 1779]. **Electron-Solid** [1779]. **Electronic** [295, 271, 218, 227]. **electronics** [2846]. **electrons** [11]. **electrophysiology** [2298]. **Elektronen** [11]. **elektronnykh** [352]. **Elementary** [105, 27, 2111, 1992]. **Elements** [206, 260]. **Elias** [3960]. **Eliminating** [1913]. **Elliptic** [3554, 2068, 2960, 2672, 3098, 3112, 4073, 1298, 1638, 2893, 1301, 3142, 4061]. **Elman** [3571]. **Embedded** [4308, 3022, 3106, 3196, 3114, 3043, 2346, 2613, 4268, 3372, 3376]. **embeddings** [2538, 3044]. **Emergence** [525, 508]. **Emission** [3524]. **Emitting** [3771]. **emphasis** [3856, 3941]. **empiric** [247]. **Empirica** [17, 16]. **Empirical** [824, 1528, 200, 2803, 2638, 2736, 3054, 3126, 786, 3232, 794, 665, 1100, 69, 2499, 2024, 2139, 679, 2061, 64, 2713, 16, 779, 2196, 2885, 17, 2392, 3125, 3768, 2312, 2646, 34, 35, 2140, 3523, 3406]. **empirically** [2842]. **empiriceskoi** [35]. **empirique** [35]. **empirischen** [2713]. **Employing** [4112, 3778]. **emulation** [2522, 3578, 2874]. **emulator** [725]. **enabled** [3486]. **Encoding** [3431]. **Encrypted** [3476]. **encrypting** [2203]. **Encryption** [2779, 434, 435, 3967, 4010, 4099, 797, 4265, 1673, 2500, 2579, 1684, 3532, 3795, 2862, 968, 1184, 1643, 933, 1668, 3627, 3628, 3396, 2142, 3528, 3405, 1039]. **Encyclopedia** [4284, 4313, 4266, 4249, 4325, 4319, 4149, 4162, 4217, 4282, 4326, 4271]. **End** [3887, 2028, 2478]. **End-to-End** [3887, 2028]. **energy** [378, 3873]. **Engine** [3167]. **Engineer** [3898]. **Engineering** [170, 1967, 4162, 4217, 4297, 993]. **Engineers** [646, 277, 1239]. **engines** [2679]. **Enhanced** [3846, 4112, 2116, 3386, 2271, 4082]. **Enhancement** [3321, 3703, 3288, 3430]. **enhancements** [4068]. **Enhancing** [4105, 4093, 1472, 4108]. **ENIAC** [3814, 87]. **Enigma** [2700]. **Enjoy** [3158]. **Enough** [1860]. **ensemble** [3016]. **Enskog** [2369]. **ENT** [4098, 3283]. **entanglement** [3458]. **Enterprise** [2837]. **Enthusiasm** [2787]. **entropies** [1637, 2671, 2995]. **Entropy** [2692, 2159, 3808, 3933, 3893, 1001, 2051, 593, 3223, 2306, 2307, 3901, 3859, 4115, 3772, 2825, 2906, 3911, 3871, 3958, 3187, 1075, 3813, 4050, 4080, 3915, 3987]. **Entropy-Based** [1001, 2051, 2306, 1075]. **Entropy-Uniformity** [2159]. **Enumerating** [2015]. **Enumeration** [3754]. **Environment** [2781, 2034, 2896, 1670]. **Environments** [3432, 3116, 3307]. **EPC** [3502]. **Equal** [668, 217, 1181, 2324]. **Equalization** [3563]. **Equally** [644, 1362]. **Equation** [119]. **Equations** [2269, 2110, 2345, 1361, 161, 132, 133, 138, 3990]. **Equidistributed** [511, 3971, 219, 3338, 1180, 2207, 2477, 2732, 2402]. **Equidistribution** [3546, 1820, 2179, 2279, 2361, 2274, 2706, 184, 1073]. **equilibria** [3211]. **Equivalence** [2597, 1916, 1436]. **era** [375]. **Erdos** [2073, 660]. **Ergebnis** [2713]. **Ergodic** [3412, 692, 872, 3019, 3250]. **Erlang** [911]. **ERNIE** [236, 209]. **Erratum** [499, 3014, 434, 1231, 2069, 691, 2195, 601, 2321, 939].

**Error** [649, 1013, 789, 1564, 2, 2925, 2246, 4024, 1812, 3197, 4255, 3461, 3055, 628, 2922]. **error-correcting** [4255]. **Errors** [2123, 2264, 1732, 2082, 2748, 2904, 2908, 2326]. **Erwin** [1967]. **erzeugte** [642, 643]. **erzeugter** [440, 473]. **Erzeugung** [1060, 634, 2173, 1238, 1009, 1362, 1514, 331, 1899, 895]. **Erzeugungen** [625]. **Escape** [1710]. **Escrow** [2097]. **Española** [134]. **Especially** [3863]. **Essays** [4143, 3285]. **Esseen** [660]. **estimate** [628]. **Estimates** [507, 1946, 1947, 2073, 1812, 1471, 2221, 1564, 2100, 1887]. **Estimating** [3030, 2815, 2004, 69, 2011, 2873, 617]. **Estimation** [2266, 2714, 1078, 95, 649, 1555, 604, 86, 703, 2001, 2666, 2925, 1598, 541, 3806, 1035, 1167, 3341, 1453, 4114, 2907, 34, 3920, 3892]. **Estimations** [2219, 2730, 3140]. **Estimators** [3223, 1970]. **eSTREAM** [2930, 3780, 4303]. **Euclid** [105, 27]. **Euclidean** [2033, 4044, 760, 2441, 2519, 682, 505, 1574, 3082, 2127, 2427, 2428]. **Eugene** [1007]. **Euro** [2713]. **EUROCRYPT** [4167, 4177]. **Europe** [4328]. **European** [4151]. **Evalua** [3163]. **Evalua-Test** [3163]. **evaluable** [3889]. **Evaluating** [2037, 2818, 1031, 221, 222, 3406]. **Evaluation** [3738, 1503, 3890, 2051, 1037, 772, 773, 510, 245, 866, 1636, 2729, 2630, 333, 3772, 3375, 3877, 2493, 2841, 2246, 2335, 2143, 3162, 860, 1076, 2967, 3056, 1982, 1992, 1142, 977, 99, 4102, 4040, 424, 2026]. **evaluations** [2080]. **even** [3795, 3650]. **even-distribution** [3650]. **Event** [1105, 2152, 2596, 2933, 3414, 2867, 1164, 639, 859, 3555, 555, 1368, 1452, 1963]. **Events** [788, 2947, 1225]. **everyone** [3691]. **Evidence** [2891, 3426, 82, 2803, 3072]. **evolution** [3170, 3285]. **Evolutionary** [4285, 2607, 3234, 3723, 4272, 3407, 2624, 3007]. **Evolvable** [2687]. **Evolved** [3050]. **evolving** [3912, 2240]. **Exact** [3673, 552, 1171, 3783, 2336, 1408, 1808, 551, 4070, 1134, 3077, 2494, 51, 2144]. **exact-approximation** [1134]. **Exactly** [3897]. **examination** [4274]. **Example** [583]. **Examples** [1500, 865, 2757, 3002, 2038]. **Exceeding** [3331, 3826]. **Excel** [2482, 2747, 2982, 3244, 2748, 2904, 3245]. **Exceptionally** [1922]. **exchange** [3879]. **Exchangeable** [3579, 1158]. **Excited** [3186, 3577]. **exclusive** [3387]. **Execution** [1498]. **executive** [3072]. **exemplary** [2146]. **Exhaustive** [1120, 1523, 1230, 1231, 1353, 2199, 3599, 3084, 3639, 3640]. **Exist** [3863, 3149]. **Existence** [1831, 876, 2830, 3632, 1271, 1413, 1360]. **expanded** [1775]. **Expanding** [3909]. **Expansion** [688, 412, 443]. **Expansions** [2595, 827, 2981, 2331, 286]. **Expectation** [402, 501, 377, 379, 414, 391, 459, 3784, 422]. **expectations** [3331]. **Expected** [1621, 2492, 3932, 2871, 1941, 1365, 1258]. **expedient** [65]. **experience** [1611, 2258, 954, 2126]. **experiences** [416]. **Experiment** [2864, 3836]. **Experimental** [949, 950, 3301, 3426, 3332, 645, 730, 25, 962, 921, 965, 970, 971, 875, 978, 2844, 3918, 813, 3302, 1948, 1762, 177, 7]. **Experiments** [3663, 152, 864, 354, 778, 870, 1375, 1971, 1186, 873, 886, 887, 888, 138, 430, 90, 137, 3880]. **Explaining** [3026]. **Explicit** [2352, 3888, 3197, 1819, 1934, 2210, 2985, 3183, 2056, 2180, 2824, 2237].

**Exploiting** [3737, 2978, 4081]. **Exploration** [3918]. **Exploring** [4329, 2020]. **Exponent** [1738, 1858, 764]. **Exponential** [579, 1930, 3036, 3204, 2372, 3048, 1084, 2648, 309, 791, 2566, 2986, 3253, 4056, 982, 2917, 3280, 1406, 1329, 350, 677, 2792, 2184, 2456, 1634, 2877, 3692, 3121, 335, 1251, 253, 803, 2567, 2666, 2761, 2988, 3075, 263, 462, 2329, 990, 3275, 2247]. **Exponentially** [214, 3594, 3270, 316, 3317, 226, 3908]. **Exponentiation** [2797, 2203, 1668]. **exponentiations** [1601]. **exponents** [2891]. **Expressing** [252]. **expression** [2080]. **Extendable** [3867]. **Extendable-Output** [3867]. **Extended** [2445, 1172, 1530, 2631, 3857, 1567, 1206, 499, 1274, 4205, 1449, 1845, 3601, 483, 3467, 1253, 2505, 2508]. **Extending** [3553, 4046, 1196]. **Extends** [1844]. **Extensible** [2533, 2830]. **Extension** [3703, 2323, 3629, 3269, 677]. **Extensions** [633, 926, 2319, 2196]. **extensively** [1918, 2382]. **extracted** [3944]. **Extracting** [3015, 2227, 1777]. **Extraction** [3441, 3772, 3722]. **Extractor** [3730, 4022]. **Extractors** [3888, 2537, 3901, 2683, 2671, 2995, 2508, 3534]. **Extrapolation** [1379]. **Extraterrestrial** [2114]. **Extreme** [1731, 8]. **Extremely** [482, 3774, 744, 601, 602, 3650]. **extremely-high-throughput** [3650].

**fabulous** [3339]. **Face** [3390]. **Facilities** [1645, 350]. **Factored** [1332]. **Factorial** [2318]. **Factoring** [1045, 1187, 1301, 1879, 1792, 2848]. **Factorization** [1874, 745, 1373, 702, 1200, 2003, 3725]. **Factorizations** [1067, 1338, 2697]. **fail** [4015]. **failure** [2460]. **Fair** [2787, 2713, 2542, 3120]. **Fairfax** [4185]. **Fairmont** [4193]. **fall** [312, 452]. **Families** [3585, 2875, 2634, 2811, 4016]. **Family** [899, 3175, 1347, 2711, 3906, 710, 1592, 3525, 3544, 3666, 1622, 2271, 1297, 3826, 3830, 1024, 3790, 2852]. **famous** [4040]. **Fast** [2690, 1156, 3167, 1061, 3173, 3845, 3020, 1706, 1506, 587, 2786, 3967, 2184, 2712, 1236, 1440, 687, 1442, 509, 3851, 4094, 3207, 3590, 3114, 2296, 2723, 1370, 2541, 1847, 2202, 2548, 2970, 4014, 1751, 3973, 1753, 309, 604, 280, 792, 2898, 2092, 3130, 4099, 1474, 119, 1658, 3716, 3065, 3066, 3067, 744, 4019, 529, 1880, 3262, 1586, 3506, 3837, 3269, 2129, 1794, 3953, 3278, 3392, 714, 2247, 541, 3524, 1273, 952, 775, 1363, 2067, 2807, 2513, 2540, 3119, 1012, 1462, 3348, 3226, 3349, 3605, 335, 1648, 337, 1135, 1984, 3830, 1992, 3071, 494, 1674, 2010, 4059, 2244]. **fast** [715, 3397, 2682]. **Fastest** [3249]. **fat** [1605]. **fat-tailed** [1605]. **Fault** [3886, 3557, 3749, 1253]. **Fault-tolerant** [3749, 1253]. **Faulty** [3820]. **Faure** [2770]. **FCRC** [4234]. **FCSR** [2931, 3975, 3387]. **FCSRs** [3664, 3325, 3973]. **FDC** [1970]. **Feather** [4101]. **Features** [3165, 444, 1597]. **February** [4312, 4243, 4276, 4152]. **Feedback** [2603, 1220, 1340, 2786, 1072, 1540, 2549, 519, 652, 3907, 654, 874, 3619, 1580, 3729, 2771, 4025, 3188, 1737, 2083, 969, 4036, 334, 3611, 310, 2089, 2751, 1309, 1393, 3831, 1783, 3989, 3882, 1143]. **Feeding** [3186]. **Feinstein** [319]. **Feistel** [3921]. **Feistel-inspired** [3921]. **Feller** [3419, 1418]. **Fence** [3796]. **Fermat** [3680, 3754]. **fermions** [3749]. **FerroCoin** [4089]. **Ferroelectric** [4089]. **ferromagnetic** [741]. **Festschrift** [4306]. **Few** [3015, 3193, 3156, 3119, 1315]. **few-body** [1315]. **Fibonacci**

[3339, 2145, 2251, 3840, 1910, 410, 3585, 1980, 250, 1984, 1985, 2092, 2093, 2094, 2901, 1994, 2488, 1794, 1890, 2585, 231]. **Field** [2254, 4214, 2917, 1610, 1977, 2650, 1257, 932]. **field-programmable** [2650]. **Fields** [4044, 3769, 1248, 1976, 3465, 3615, 1874, 2225, 1801, 317, 3965, 4237, 3757, 961, 1187, 2314, 4216, 1660, 1768, 1873, 2226, 2567]. **Fifteenth** [4160]. **Fifth** [4297, 4220, 4334, 4232]. **Figures** [1495]. **File** [3299]. **Files** [3321]. **filling** [188]. **Filter** [3130, 3846]. **Filtered** [2641, 2931]. **Filtering** [550, 3033, 3728]. **filters** [1721, 1722, 1857]. **Final** [1019, 2480]. **Finalist** [2579]. **Finalists** [2539, 2627, 4303]. **finalizer** [3634]. **Finally** [1359]. **Finance** [3169, 4321, 4313, 3827]. **Financial** [2424]. **Find** [2293, 1397, 2135, 2376, 2115]. **Finding** [513, 2624, 2804, 4032, 3779, 3787, 1016, 1095]. **Finely** [3334]. **Fingerprint** [3342, 3529]. **fini** [2909]. **Finite** [3012, 2036, 1107, 376, 469, 3183, 2266, 1248, 1976, 2314, 3465, 2561, 2562, 4216, 1660, 1873, 1874, 2005, 3002, 317, 2035, 212, 1212, 1808, 3965, 3757, 1534, 1187, 3708, 1764, 1257, 1768, 2567, 2909, 932, 3647, 2144, 578, 4237]. **Finite-Difference** [2266]. **finite-length** [3647]. **FIPS** [1877]. **First** [4109, 1747, 285, 259, 4152, 4187, 4253, 4135, 582, 2699, 1366, 3710, 87]. **First-Order** [1747, 1366]. **Fisher** [949, 950, 962, 965, 970, 971, 978]. **Fishman** [4306]. **fission** [3873]. **Fit** [598, 2980, 19, 841, 69, 88, 102, 3184, 4173, 1171, 1075, 1183, 2555, 98, 627]. **Five** [2943, 1034, 2203]. **Fix** [3898, 2748, 2922]. **Fixed** [1855, 1387, 4103, 1952, 3254]. **fixed-length** [3254]. **fixes** [4066]. **Fixing** [2904]. **FL** [4264]. **Flash** [4018]. **Flaw** [4053, 3751]. **Flaws** [3419]. **flights** [256]. **Flip** [162]. **Flip-flop** [162]. **Flipper** [163]. **flipping** [1883]. **Flips** [1107, 1212]. **float** [3656]. **Floating** [4030, 4072, 3208, 1744, 3103, 4008, 3599, 2082, 3910, 669, 2239, 1884, 3275, 714, 3090]. **Floating-Gate** [3208, 3090]. **Floating-Point** [4030, 4072, 4008, 2082, 669, 2239, 1884, 3275, 714]. **Flock** [4101]. **flop** [162]. **Florida** [4164, 4242, 4133, 4225, 4154]. **flow** [3120, 1796]. **flow-level** [3120]. **Fly** [3375]. **Fock** [2574]. **folding** [929, 930, 3947, 3007]. **Fonctions** [4, 284]. **Force** [4142]. **forced** [3653]. **forests** [1904]. **Fork** [1415, 1851]. **Fork-Join** [1415, 1851]. **Form** [1838, 2473, 2548, 945, 3120, 2682]. **Formal** [2076]. **formalism** [2684]. **Formalization** [3115]. **Format** [3321]. **Formation** [199, 479]. **forme** [2682]. **Forms** [846, 1215, 1076, 1133, 977]. **formula** [3596, 2814]. **Formulae** [169]. **Formulas** [397]. **Formulation** [2167, 1008, 708]. **Forsythe** [633]. **Fortran** [2708, 725, 2195, 914, 922, 1087, 619, 1780, 1682, 500, 3744, 2259, 478, 2075, 1957, 612, 740, 527, 1142, 938, 942]. **fortune** [1837]. **Forty** [4334]. **Forty-fifth** [4334]. **Forum** [2787]. **forward** [3122, 3085]. **Found** [1806]. **foundation** [571]. **Foundational** [4337]. **Foundations** [4158, 4161, 4164, 4179, 4184, 4190, 4196, 4206, 4229, 4238, 4242, 4263, 4267, 4318, 4333]. **Four** [1481, 2436, 1736, 2309, 2095, 2096, 2480, 2670, 2763, 3394]. **Four-Bit** [1481]. **four-dimensional** [3394]. **Four-Tap** [2436]. **Fourier** [2959, 405, 3970, 3764, 3465]. **Fourth** [4273, 4188, 4203, 4257, 4134]. **FPGA**

[3161, 3169, 3302, 4107, 2445, 3567, 2522, 3108, 3811, 3578, 3335, 3345, 3456, 3974, 3466, 3981, 3490, 3499, 3375, 2670, 2763, 3513, 3515, 3790, 3838, 3878, 2851, 3288, 3402, 3652]. **FPGA-Based** [2445, 3375, 3161, 3578, 2851, 3652]. **FPGA-Optimised** [3515]. **FPGAs** [3162, 4090, 2743, 3872, 3913, 3520]. **fractal** [4028]. **fractals** [1577, 4281]. **fraction** [2947, 4036, 286]. **fractional** [4006, 2091, 3071]. **fractions** [1254]. **Framework** [3110, 2509, 3857, 3704, 4102, 3265]. **frameworks** [3956, 3869]. **France** [4167]. **Francisco** [4272, 4276]. **Frank** [3552]. **Free** [720, 3676, 3579, 3400, 1329, 468, 2167, 3198, 1234, 11, 1095, 164, 3646, 3648, 3919]. **FreeBSD** [2753]. **freedom** [350, 1603]. **freie** [11]. **French** [904, 178, 2863, 3, 4, 1908, 763, 322, 1036, 1380, 2209, 284, 698, 737, 344, 2570, 2909, 805, 35, 1594, 2682, 542]. **frequencies** [65, 74]. **Frequency** [4000, 2071, 2190, 3899, 2993, 1055, 629, 4108, 555, 1365, 3359, 2762, 715]. **Frequency-Modulated** [2993]. **frog** [2364]. **frontiers** [4306, 4281]. **frustration** [3394]. **FTN77** [1944]. **Fukuoka** [4199]. **Full** [3305, 1116, 1038, 4006, 3384, 2849]. **Full-Length** [1116]. **Fully** [3180, 2616, 2929]. **Function** [580, 3927, 3669, 1911, 1222, 1620, 638, 2711, 323, 827, 2466, 3039, 1946, 1947, 2073, 3695, 3696, 2631, 3825, 2815, 654, 86, 2652, 2827, 1875, 2225, 459, 1581, 3629, 2672, 3408, 2590, 817, 499, 3959, 3842, 3666, 1215, 681, 999, 2063, 1078, 306, 3453, 1966, 39, 483, 3056, 3128, 1251, 255, 1252, 1982, 2899, 3364, 2226, 3257, 703, 3832, 1315, 1260, 1261, 3277]. **Function-based** [3408]. **functional** [3096, 3304, 1652, 2428]. **Functionalities** [4101]. **Functionality** [2630, 2493]. **Functionals** [1598]. **functioning** [3072]. **Functions** [3739, 349, 2036, 3418, 3843, 3668, 1807, 3888, 3185, 3999, 3201, 2714, 4092, 1172, 1237, 3758, 328, 1647, 486, 3776, 2097, 3711, 3863, 3864, 3867, 2486, 3868, 3721, 2836, 3870, 528, 1671, 3727, 370, 982, 2125, 3391, 1598, 4062, 432, 1330, 3658, 1333, 2932, 3800, 2157, 4, 3846, 3889, 4066, 1343, 1111, 2871, 1035, 1167, 2528, 2464, 3204, 3449, 3592, 4123, 1449, 1297, 3765, 3697, 4012, 4139, 2310, 1188, 1302, 1752, 1385, 1135, 3131, 3471, 284, 1868, 2317, 3254, 1992, 2107, 3481, 665, 190, 2582, 671, 1059, 3881, 3839, 2029, 960, 246]. **functions-based** [3592]. **Fundamental** [2595, 3419]. **Fundamentals** [959, 2726, 2833, 3214]. **Funktionen** [246]. **Further** [2441, 2166, 52, 133, 3875, 422, 289, 3954, 3072]. **fused** [2690]. **Fushimi** [2244]. **fusion** [3301]. **Future** [3455, 3574]. **Fuzzy** [3627, 4022, 3628].

**G** [543, 3023, 597, 641, 1972, 1089, 262, 70]. **G5** [381, 392, 436, 678, 599, 481, 648, 363, 364, 365, 621, 463, 631]. **Galois** [2254]. **gambler** [3224]. **Gambling** [2512, 2688, 3795]. **Game** [2911, 4028, 2862, 3211]. **game-playing** [2862]. **gaming** [491]. **Gamma** [674, 4088, 756, 818, 544, 823, 912, 1284, 770, 871, 925, 2398, 2557, 1388, 4056, 2234, 1054, 536, 892, 893, 1023, 716, 809, 3792, 897, 902, 1273, 1063, 857, 4047, 378, 2877, 1041, 1242, 331, 967, 3121, 3943, 789, 3468, 832, 1088, 2107, 568, 620, 705, 885, 986, 751, 1024, 3272, 850, 752, 717, 1026, 765, 687, 3774].

**gamma-distributed** [331, 687]. **Gamma-distribution** [765]. **gamma-rays** [1088]. **gammaverteilten** [331]. **gap** [235]. **gas** [817, 681, 2328]. **GASPRNG** [3753]. **Gate** [3208, 2650, 3090]. **Gates** [3156, 3445]. **Gateway** [4269, 4163, 4210]. **Gathering** [2692]. **Gauss** [1868]. **Gaussian** [3160, 2691, 4044, 902, 1027, 1419, 678, 1110, 3310, 2522, 3807, 1623, 3108, 3322, 298, 351, 2874, 3686, 2296, 3817, 2298, 2543, 3456, 2730, 2892, 2972, 3055, 3056, 3231, 3605, 3704, 3614, 3773, 3861, 3905, 655, 1651, 453, 1048, 3828, 880, 366, 3071, 3499, 3500, 3835, 536, 397, 3150, 3274, 3791, 3838, 3878, 1892, 3519, 1598, 894, 3009, 2334, 2429]. **Gaussian-distributed** [3456]. **Gbit** [3637]. **Gbit/s** [3637]. **GCD** [1274, 1843, 1196, 1310, 2007, 2010, 2127, 1895]. **GCDs** [3236]. **GECCO** [4285, 4272]. **GECCO-2001** [4272]. **geeks** [2823]. **gems** [4322, 4332, 4302]. **Gen2** [3306, 3502]. **généateurs** [4126]. **General** [952, 503, 2954, 1946, 1947, 2073, 3900, 3231, 526, 106, 1091, 851, 3287, 2340, 4201, 725, 3857, 386, 974, 1261, 3145, 3632, 3985, 621]. **General-Purpose** [1091]. **Generalised** [2197, 902]. **Generalization** [446, 238]. **generalizations** [3680]. **Generalized** [3960, 1220, 1340, 1716, 2870, 3323, 3048, 1382, 652, 389, 3367, 2770, 1027, 4029, 1910, 3305, 1815, 3807, 1935, 2794, 412, 443, 1363, 3586, 2877, 3817, 1956, 3121, 2083, 3230, 3605, 1866, 1309, 2666, 2761, 2988, 3077, 2767, 1072]. **Generate** [1332, 1030, 1106, 1909, 2623, 1540, 3794, 1902, 2439, 776, 2193, 1240, 3985, 1601, 1896, 1685, 2029]. **Generated** [3295, 3413, 267, 244, 1079, 616, 3870, 374, 3651, 1325, 1802, 584, 759, 1715, 440, 473, 588, 3680, 1432, 1517, 242, 769, 1356, 3111, 642, 1953, 1042, 2302, 2082, 2083, 1185, 3610, 2213, 2397, 699, 801, 1195, 1476, 1571, 2565, 3252, 3718, 932, 840, 1051, 3630, 2926, 233, 2338]. **generates** [2651, 2994]. **générateurs** [1380, 2682, 2570, 2209]. **Generating** [1026, 2146, 2252, 818, 1694, 3924, 2932, 1610, 1804, 905, 951, 3665, 544, 1109, 1911, 2262, 856, 3805, 3432, 3847, 270, 196, 1221, 1222, 1620, 1814, 2525, 1000, 1285, 3201, 153, 323, 410, 3582, 3583, 4030, 480, 245, 201, 1954, 3817, 3818, 155, 2543, 1963, 2080, 781, 1743, 1744, 1130, 3048, 1015, 1855, 3605, 309, 2088, 3614, 251, 874, 253, 254, 280, 281, 311, 336, 792, 972, 1136, 2398, 2557, 1656, 1047, 2097, 795, 1388, 3712, 835, 3618, 1305, 1389, 204, 205, 526, 2829, 1575, 1578, 3485, 2489, 1996, 2114, 529, 622, 706, 3374, 2233, 1259]. **Generating** [2234, 1101, 462, 2241, 1146, 629, 2329, 2580, 2506, 1322, 851, 2138, 1151, 717, 3005, 3088, 1406, 1060, 2593, 3842, 679, 1917, 4120, 1111, 1113, 771, 1942, 1238, 3687, 94, 1535, 1842, 3692, 1547, 967, 1850, 924, 3121, 1463, 2644, 3704, 789, 335, 226, 255, 283, 337, 832, 1134, 2399, 2558, 3908, 490, 2405, 3778, 926, 3063, 2410, 568, 620, 666, 345, 1880, 705, 624, 2415, 569, 3873, 1099, 885, 986, 2842, 1590, 2012, 4084, 751, 849, 193, 167, 1680, 4128, 715, 1489, 4086, 2587, 3736, 1899]. **Generation** [3536, 3991, 1025, 1411, 2437, 3956, 1272, 2858, 3797, 853, 543, 756, 757, 898, 899, 900, 901, 3545, 2344, 2934, 3017, 1334, 2257, 1501, 2349, 2518, 2351, 2164, 3560, 855, 761, 2601, 823, 1110, 1281, 763, 216, 549, 471, 1342, 2047, 2869, 2945, 1513, 2523, 1112, 1223, 2170, 2789, 3024, 4109, 637, 3321, 1070, 1347,

1227, 2057, 3810, 2452, 1116, 2366, 3029, 91, 92, 2712, 1940, 2369, 597, 2370, 2795, 3330, 641, 446, 2371, 2621, 325, 2296, 1738, 1952, 2882, 3693, 3210, 2626, 599, 1370, 2725, 330, 2727, 2197, 2728, 3454, 1082, 1372, 3695, 3696].
**Generation**
[1964, 869, 1640, 4051, 780, 829, 871, 1549, 2303, 1465, 2637, 2890, 3052, 3227, 831, 3823, 1186, 4014, 3357, 249, 3771, 695, 1649, 1756, 3905, 3707, 2214, 1862, 2898, 2093, 2094, 3059, 453, 2218, 2903, 657, 610, 738, 1193, 3133, 131, 187, 1089, 2569, 3717, 3911, 611, 1771, 2105, 2224, 662, 701, 227, 4054, 1091, 667, 3948, 4056, 4019, 260, 2002, 3373, 1400, 1669, 1020, 2993, 3834, 1583, 3142, 2576, 287, 845, 884, 982, 983, 984, 985, 1022, 1102, 1203, 3506, 2008, 1886, 2997, 630, 890, 1262, 1789, 3269, 573, 2331, 3147, 3637, 3951, 3984].
**Generation**
[892, 893, 1023, 2680, 136, 165, 1794, 3151, 3274, 1892, 3277, 3278, 2245, 428, 1150, 1206, 539, 540, 1681, 716, 2510, 1604, 3735, 3920, 3653, 904, 3883, 634, 4105, 1270, 433, 2515, 3958, 1497, 1803, 3164, 3296, 3884, 1906, 1333, 3016, 3546, 3547, 3742, 3743, 3744, 3799, 1273, 1907, 2153, 3093, 3660, 350, 3170, 994, 2935, 3746, 854, 3996, 2161, 3176, 821, 1065, 1908, 182, 4119, 1504, 1423, 952, 911, 1707, 403, 1809, 3929, 404, 2443, 2353, 3099, 2044, 2355, 470, 1341, 1343, 997, 1032, 1619, 1718, 2870, 3433, 998, 999, 1033, 1114, 1224, 1719, 1720].
**generation**
[1815, 2270, 3317, 3807, 4047, 1002, 1163, 1430, 218, 2059, 2181, 322, 2872, 1434, 2455, 768, 555, 1074, 1292, 1437, 1526, 3032, 557, 185, 1294, 1362, 643, 2876, 3756, 4006, 3447, 3895, 3850, 3041, 2075, 1078, 1839, 2535, 2723, 2807, 1446, 3209, 1041, 202, 1449, 1740, 1537, 1538, 828, 1080, 4034, 3453, 118, 1182, 1243, 3219, 1011, 4052, 1458, 783, 1460, 4095, 1014, 1043, 3938, 1973, 2390, 2393, 2889, 3700, 3940, 1853, 129, 3701, 2813, 3972, 4114, 3770, 1466, 4077, 3858, 3904, 1249, 158, 1468, 3861, 2554, 793, 1085, 3774, 1864, 1985, 2479, 2559, 2560, 1865, 160].
**generation**
[130, 1137, 3714, 3910, 564, 565, 1661, 1769, 1770, 1990, 2104, 2106, 618, 3830, 3368, 880, 3783, 420, 3947, 492, 3869, 1090, 1050, 3621, 3949, 3071, 3491, 3072, 1096, 1052, 3075, 3140, 937, 979, 4102, 1201, 883, 2575, 981, 3078, 3835, 2328, 1204, 989, 149, 2129, 3638, 2244, 2583, 1486, 3086, 3152, 3791, 1594, 2584, 1320, 3987, 1149, 1321, 850, 3732, 576, 632, 672, 714, 3399, 3157, 2586, 3649, 3734, 2433, 1603, 1265, 2435, 2689, 2775, 3892, 1596, 3397, 1908, 322, 1594, 904, 1514, 1009, 625, 895, 763, 1531, 1545, 1546, 1316, 3023, 3101].
**Generations** [3558, 3603, 3307, 2422]. **Generator**
[3654, 1156, 3537, 1211, 1905, 3540, 3295, 3413, 2254, 3168, 2151, 295, 3549, 3661, 758, 3845, 3554, 1213, 3668, 1336, 908, 503, 1424, 822, 1506, 3563, 3428, 4089, 2039, 3186, 3306, 3430, 4065, 4107, 3674, 2043, 2445, 1161, 1615, 2354, 3310, 1921, 2944, 4000, 1621, 2790, 271, 2172, 3104, 3105, 3106, 3196, 3573, 2705, 2451, 2793, 3577, 4071, 1166, 3202, 2185, 2614, 3580, 1525, 3442, 825, 2529, 2715, 2952, 1358, 1439, 1528, 2461, 2617, 2954, 3443, 200, 243, 687, 1442, 3203, 3445, 3446, 3334, 509, 3038, 1295, 2466, 3336, 2879, 3688, 355, 4094, 1367, 3591, 1127, 3593, 3690]. **Generator** [3208, 3043, 1840, 4111, 2808, 1636,

3854, 2468, 3345, 1844, 3216, 1544, 1639, 3220, 3820, 2965, 2966, 3600, 1013, 333, 482, 1300, 3698, 4053, 3699, 3050, 650, 1750, 1751, 3234, 3902, 2977, 3466, 1558, 521, 522, 655, 2556, 1087, 2092, 2216, 1472, 1192, 2404, 2220, 1867, 3713, 3619, 4079, 3362, 1877, 3475, 3476, 2983, 3251, 3477, 3945, 4100, 931, 2411, 3138, 3139, 744, 1998, 3722, 842, 935, 1053, 229, 1582, 4057, 3500, 3262, 3727, 3375, 1202, 531, 532, 748, 938, 1586, 1587, 2419, 1588, 2125, 2673, 3081, 988, 2498, 3379, 3507, 891, 3083, 2130, 2919, 3637, 3148, 3270, 3271]. **Generator** [3385, 1485, 3273, 3386, 3878, 3276, 3517, 3389, 3390, 1595, 3391, 3393, 2135, 1682, 3398, 3400, 3648, 429, 1058, 1152, 1324, 1799, 3524, 3288, 3402, 3403, 3527, 3291, 3404, 3293, 3529, 3407, 1267, 3408, 3435, 2778, 3409, 2589, 1412, 816, 3411, 1607, 3992, 3294, 3160, 1690, 3163, 817, 3538, 3539, 2032, 2033, 2341, 2931, 1496, 4028, 2255, 3798, 4106, 4029, 1061, 3417, 1499, 467, 3551, 2936, 3747, 1698, 3172, 2937, 3844, 3300, 3421, 3176, 3177, 3301, 3302, 3556, 3557, 1422, 678, 1108, 3098, 3179, 635, 3303, 3846, 3304, 1614, 1914, 3427, 1425, 547, 3305, 3564, 1280, 320, 3188]. **generator** [680, 681, 1711, 2868, 3190, 2046, 3567, 1426, 2522, 3568, 1813, 3434, 997, 2703, 3749, 472, 3571, 4067, 4068, 553, 3320, 1115, 4091, 3438, 3198, 3108, 914, 1516, 1631, 1728, 1228, 1288, 1352, 764, 3576, 2951, 3811, 476, 725, 3578, 1522, 2613, 3812, 1291, 2874, 1355, 2367, 3753, 2616, 3935, 2717, 2464, 1173, 380, 413, 3444, 1532, 775, 777, 3332, 3333, 1363, 2067, 2189, 3112, 3686, 4073, 3335, 2069, 2070, 3936, 3588, 3340, 3592, 1948, 2379, 1951, 2963, 1955, 2534, 3118, 3209, 3344, 3762, 1241, 1635, 224, 383, 2298, 1242, 2467, 154, 2380, 1957, 2195]. **generator** [2513, 2540, 3598, 2809, 1298, 1128, 3456, 3346, 1454, 2200, 2201, 2302, 3217, 3218, 3347, 3221, 2544, 4011, 332, 1012, 1459, 1642, 2967, 601, 602, 248, 785, 1131, 1378, 3458, 2309, 3348, 3459, 1016, 3226, 3349, 3350, 786, 2084, 2892, 2893, 2972, 3055, 3056, 2552, 1556, 485, 2643, 2813, 3606, 3607, 2978, 1857, 2894, 3464, 3609, 3612, 3903, 2211, 2739, 1977, 603, 1648, 653, 3613, 3773, 3358, 1560, 1561, 2315, 2741, 3469, 2899, 3616, 1984, 3827, 2402, 4116, 3617, 796, 456, 834, 2751, 797, 1088, 3472, 927, 836, 3473, 837, 3363, 3474, 1018, 1257, 3478, 663, 3255, 3782, 3136, 2229, 3370]. **generator** [1477, 162, 493, 527, 3487, 974, 1666, 3256, 3981, 2413, 2571, 2113, 1312, 804, 621, 2572, 1999, 3490, 623, 368, 3624, 1668, 3074, 2915, 2916, 3076, 1670, 3726, 707, 3876, 3915, 3077, 711, 1784, 2418, 3502, 494, 3627, 3628, 1674, 2124, 2238, 2239, 2671, 2995, 4082, 1884, 3504, 847, 1885, 289, 2996, 2496, 2674, 2844, 2581, 208, 2846, 3146, 2998, 4041, 3636, 2766, 1792, 2767, 2768, 2769, 2848, 2999, 3000, 3384, 3511, 3512, 3272, 3513, 3514, 1205, 2425, 3388, 1795, 4060, 2507, 3153, 3392, 3518, 3731, 3281, 3282, 3522, 3643, 3644, 1599, 3087, 3284, 3401, 3286, 1800, 3650, 3289]. **generator** [3528, 3090, 3290, 3990, 2776, 2929, 3652, 3531, 3009, 4087, 3793, 1268, 1606, 2338, 3010, 1900, 3570, 3679, 4113, 2021, 1226, 461, 463, 3279, 3396]. **Generatoren** [1060, 1062]. **Generators** [1407, 2591, 2339, 2856, 293, 4088, 2145, 2251, 3013, 3412, 1493, 3739, 3923, 3297, 3167, 2693, 2343, 3169, 2781, 3017, 581, 2155, 3416, 4126, 3548, 1612, 2259, 3664, 2159, 906, 3961, 4045, 1421, 3424, 3802, 2865, 3020, 3178, 2163, 909, 910, 3180, 1217, 2444, 912, 3431,

2446, 1220, 1282, 1340, 3189, 2942, 405, 2606, 1713, 3314, 1510, 1926, 1345, 1716, 1927, 2268, 3193, 3195, 3677, 3678, 3967, 4046, 4121, 2704, 724, 3681, 1348, 2052, 2175, 2176, 4110, 1431, 1349, 1626, 3199, 2062, 3575, 4048, 2710, 3031, 3684, 767, 824, 1003, 1037, 1120, 1523, 3849, 1233, 726, 1123, 1828]. **Generators** [1527, 3035, 304, 772, 773, 1831, 2797, 2798, 2955, 3685, 3755, 4093, 1364, 3758, 2068, 2071, 2190, 3113, 3206, 3971, 3114, 2293, 2625, 2077, 2960, 866, 3451, 4075, 279, 327, 4032, 4033, 2729, 2383, 2202, 3766, 2630, 561, 2631, 1552, 1247, 1382, 1383, 1748, 2208, 2307, 2311, 2388, 2394, 2473, 2474, 2475, 2547, 2548, 2549, 2638, 2735, 2736, 3054, 3124, 3126, 3351, 3604, 3824, 4035, 4127, 3899, 1747, 3355, 3232, 2737, 2975, 2976, 3235, 3705, 3465, 2395, 4115, 1647, 2484, 3772, 359, 3906, 3907, 1189, 1191, 1861, 1863, 2819, 2745, 3243, 1654, 2749, 4099, 3776, 1475, 1563, 1565]. **Generators** [1763, 1304, 2222, 2652, 2827, 1870, 2659, 2757, 3717, 740, 875, 613, 658, 798, 799, 3716, 1875, 3868, 3484, 1397, 3138, 1994, 1092, 1781, 3872, 3913, 421, 1481, 2838, 3494, 3495, 3496, 3497, 2120, 3259, 806, 2667, 3498, 3261, 1671, 3499, 2121, 3376, 4117, 1100, 2493, 2669, 2841, 3079, 2240, 572, 2501, 2503, 537, 2677, 2678, 2423, 2921, 1405, 1591, 1793, 2019, 1147, 3515, 575, 2851, 3154, 1678, 1679, 2246, 1893, 2854, 3918, 809, 1323, 2139, 2512, 2688, 429, 1683, 430, 496, 3792, 852, 1687, 2436, 1060, 1154, 1209, 1325, 1327, 1491, 3737, 2690, 1901, 2514, 3161]. **generators** [3162, 3921, 1271, 1413, 1331, 3840, 500, 3738, 2148, 3658, 2150, 1693, 3164, 1695, 2342, 3544, 3741, 3885, 2345, 3659, 3744, 1062, 3093, 3660, 3800, 3415, 3298, 2598, 2035, 3886, 3171, 1699, 1157, 1063, 1419, 2938, 3422, 3962, 1064, 2939, 1214, 2037, 1703, 2696, 2784, 3021, 3097, 2442, 911, 1505, 1706, 2940, 1216, 722, 3184, 3804, 1918, 3187, 3998, 3748, 3566, 1919, 2168, 2263, 548, 2264, 1923, 2045, 2169, 2265, 1031, 1924, 3313, 2356, 1344, 1511, 1512, 3315, 1428, 1508, 1509, 3569, 1618, 1717, 2788, 2946, 3194, 3316, 3931, 1346, 1429, 636, 2947, 3750, 3318, 3319, 1622, 4001]. **generators** [408, 1430, 2791, 2271, 2272, 2526, 1515, 3322, 1432, 1433, 1518, 1725, 1351, 2949, 1938, 1939, 2061, 2182, 2183, 2281, 2363, 2364, 2454, 2607, 2608, 1732, 1168, 1826, 860, 957, 958, 1230, 1231, 1353, 1827, 2064, 3934, 441, 1039, 275, 2368, 863, 1005, 2953, 3111, 3935, 1360, 3813, 2956, 3584, 2799, 1736, 1832, 774, 478, 1238, 1294, 1362, 2619, 2719, 2801, 2802, 3204, 3757, 3448, 1533, 3449, 1443, 1834, 1835, 1944, 689, 4007, 4074, 3338, 3589, 3590, 3815, 1945, 2074, 2294, 2295, 2376, 2624, 3937, 1444, 2297, 3761, 779, 4049, 868, 3450]. **generators** [3343, 1445, 1956, 3595, 1180, 3764, 1739, 2537, 2538, 3044, 1539, 357, 384, 2196, 2964, 1846, 2199, 2300, 2301, 2381, 2382, 3599, 1010, 3219, 1456, 2885, 922, 1741, 3225, 4013, 2471, 3601, 1745, 2968, 3049, 3122, 830, 1380, 1381, 1464, 1646, 1854, 2204, 2206, 2207, 2209, 2306, 2308, 2389, 2391, 2392, 2476, 2477, 2634, 2636, 2732, 2811, 2887, 2970, 3123, 3125, 3462, 3768, 1553, 3939, 1132, 2969, 3229, 3353, 2312, 1749, 3230, 1188, 1302, 3356, 872, 2646, 3974, 3463, 3128, 4037, 3238, 1250, 2213, 2739, 1980, 2089, 3706, 3359, 3708, 449, 450, 487, 523, 1650, 1757, 1981, 1983, 2820]. **generators** [2743, 3240, 4017, 2400, 2650, 2900, 2901, 3709, 3775, 1759, 1987, 2401, 2403, 2822, 3060, 3129, 1760, 1866, 794, 3245, 3131, 3471, 2825, 2906, 1762, 1657, 457,

3977, 3778, 3361, 2100, 3866, 1765, 612, 3135, 3365, 2223, 659, 1138, 1309, 1572, 2567, 2655, 2756, 1573, 1772, 1773, 3254, 2908, 3479, 3480, 619, 2570, 2910, 2987, 3069, 3483, 1665, 1140, 1311, 1398, 1478, 1775, 1776, 2112, 1399, 2115, 3488, 3070, 1142, 2118, 843, 2414, 3982, 1097, 1579, 882, 1098, 3914, 3877, 2325, 2123, 1585, 1883, 1403, 1484, 1786, 2918, 3787, 2670, 2763, 1787, 2495, 3505].
**generators**
[4103, 3950, 263, 2241, 2009, 1788, 3633, 2845, 2504, 3837, 4059, 4083, 1317, 3635, 2675, 2676, 2505, 3381, 2920, 2332, 2681, 2849, 3001, 3084, 3085, 3149, 3510, 3639, 3640, 1675, 1891, 2018, 3150, 3275, 3790, 3838, 3516, 3003, 2682, 2508, 2683, 1677, 991, 2852, 4061, 2772, 2853, 3520, 1103, 2134, 1104, 3954, 4042, 2247, 1894, 3645, 1798, 2687, 2024, 2140, 2249, 2025, 464, 3523, 2337, 3089, 3526, 3919, 2777, 3405, 3406, 3881, 3533, 3534, 2350, 3228, 3354, 401, 516, 484].
**generators-part** [2675]. **Generazione** [994, 492]. **Genetic**
[2598, 2625, 2720, 2721, 647, 691, 3050, 2817, 4272, 2921, 3006, 2161, 2941, 2743, 3715, 4285]. **Gentle** [3078, 2518, 2903]. **Genuine** [3727, 2926].
**Geographic** [2350]. **Geometric**
[3659, 770, 1962, 2222, 2852, 2814, 1765, 2684]. **Geometrical** [3394, 2087].
**Geometrically** [2883, 2800, 2816]. **Geometry**
[2407, 2408, 1069, 3318, 4003, 1966]. **geophysics** [1597]. **George** [4306, 262].
**Georgia** [4253, 4240, 4168]. **Germain** [2900]. **German** [1060, 634, 3011, 1062, 440, 473, 2173, 1514, 2713, 1039, 2460, 1238, 1362, 642, 643, 221, 246, 278, 1009, 331, 11, 33, 1762, 742, 669, 625, 533, 534, 571, 5, 1899, 895, 176].
**Germany** [4316]. **Getting** [3393, 2511]. **GFSR**
[2069, 1412, 1436, 2070, 1759, 1987, 2406, 1318, 1319, 1405, 1890, 2017]. **GI** [1972]. **GI/G/1** [1972]. **Gibbs** [1810, 2049, 2066, 741]. **gigahertz** [1496].
**Gill** [508]. **Giovanni** [3769]. **Gitterstruktur** [1060]. **Given**
[1110, 1222, 1620, 1540, 1, 3842, 151, 999, 260, 2329, 1680]. **giving** [141].
**Gjrand** [3422]. **Glasgow** [4237]. **gleichverteilte** [1062]. **gleichverteilten** [634]. **gleichverteilter** [1238, 1362]. **Gleichverteilung** [5, 246].
**Gleitkommadarstellung** [669]. **glimpse** [782]. **Global**
[3159, 736, 2225, 1369, 2226]. **GLP** [2707]. **Gmunden** [4215]. **GMW** [1144].
**GNU** [3326]. **Gnumeric** [2904]. **go** [4023]. **goddess** [2555]. **goddess-of-fit** [2555]. **goes** [3136, 3493]. **Goldreich** [4091]. **Good**
[2339, 1731, 509, 1836, 2293, 2376, 2625, 3045, 3454, 2731, 2389, 2474, 2637, 2830, 1397, 744, 935, 1053, 3144, 3145, 3267, 2921, 1798, 399, 465, 1914, 2951, 1732, 1832, 3042, 1635, 2300, 693, 731, 2968, 1380, 1854, 2476, 1016, 2891, 610, 876, 2661, 3830, 2115, 3493, 1883, 4083, 3639, 3640, 3005, 3088]. **Goodness**
[4173, 598, 2980, 841, 69, 88, 102, 3184, 1171, 1075, 1183, 98, 627, 19].
**Goodness-of-Fit** [2980, 841, 4173, 3184, 1171, 1075, 1183, 627]. **Gossip**
[3851]. **Gowers** [3608]. **Gozd** [4239]. **GP** [4272, 3720]. **GP-2001** [4272].
**GP-GPU** [3720]. **GPGPU** [3726]. **GPU** [3840, 3545, 3743, 3799, 3753, 3443, 3850, 4322, 4332, 4011, 3706, 4302, 3486, 3720, 3621, 3532]. **GPU-based**
[4011]. **GPU-enabled** [3486]. **GPUs** [3799, 3563, 3856, 3941, 3982].
**Gradient** [3341, 1555]. **Graduate** [4258]. **Grain** [3116]. **Grand** [4250].

**Grande** [2446]. **Granular** [4020]. **Graph** [3030, 519, 1916, 2949, 2063, 2873, 1959, 2015]. **Graphic** [3501, 3785, 3417]. **Graphical** [1483, 1673, 1791]. **Graphics** [3569, 3486, 3415, 3746, 3226, 3714, 1479, 1667, 3533, 3653]. **Graphs** [4048, 1904, 2192]. **gray** [1722]. **gray-scale** [1722]. **Greater** [901, 2234, 471]. **Greatest** [513, 1299, 1129, 1095, 754]. **Greece** [4297]. **Greedy** [3508]. **Green** [1315]. **grenades** [2384]. **Grenoble** [4151]. **gretl** [3735]. **Grid** [1223, 2896, 3292]. **GRNG** [3878]. **Group** [1996, 782, 3601, 3142]. **Group-Valued** [1996]. **Grouped** [841, 42]. **grouping** [50]. **Groups** [1920, 2715, 2639, 2035, 1534, 3708]. **growth** [3479]. **Guangdong** [4323]. **guarantee** [1290]. **guaranteed** [3838]. **Guarantees** [1735, 2028]. **Guest** [2355, 3155]. **Guide** [3657, 1066, 1276, 2638, 2736, 2654, 1023, 2206, 3126, 2653]. **Guideline** [4051]. **Guidelines** [1735, 1584]. **Guitar** [2787].

**H** [294, 993, 897, 170, 3586, 560, 249, 3237, 1886]. **H2PEC** [1371]. **Haar** [1947, 2073]. **Håstad** [3986]. **Hadamard** [3791, 3878]. **Halcomb** [170]. **Halftoning** [3573]. **halls** [3070]. **Halton** [3323, 3367, 3263]. **Hamburg** [4140]. **Hamiltonian** [3019]. **Hammersley** [913]. **Hamming** [1609, 4064, 2242]. **Hamming-Weight** [4064]. **hand** [2384]. **Handbook** [4245, 3927, 4307, 4279, 4331, 2744, 2316, 1089, 292, 1002]. **Handel** [2743]. **Handel-C** [2743]. **Hard** [2591, 3922, 640, 1397, 4085, 1330, 1414, 1773, 3372, 3394]. **Hard-coded** [3922]. **hard/soft** [3372]. **hardcore** [3800]. **Hardness** [4069, 2831, 4024]. **hardnesses** [2772, 2853]. **Hardware** [1412, 3745, 3844, 3845, 2349, 3801, 3302, 3964, 3099, 4308, 2790, 3106, 3322, 3324, 3686, 4094, 2631, 3228, 3905, 4039, 1662, 2229, 3500, 3386, 3274, 4128, 4026, 3435, 2589, 1061, 3179, 2613, 3332, 3203, 3347, 4268, 2967, 2892, 2972, 3055, 3056, 3704, 3770, 2978, 3973, 3613, 3614, 2743, 456, 1576, 3835, 3009, 3679, 3354]. **Hardware-based** [3386, 2892]. **Hardware-optimized** [3322]. **Harmonic** [848]. **Harvard** [4129, 4148]. **harvesting** [3960]. **hasard** [698, 737]. **Hash** [3668, 3671, 3592, 2404, 3867, 3868, 1671, 3629, 3481, 3257, 3832]. **Hash3** [3634]. **Hashing** [2171, 3748, 2098, 3953]. **HASPRNG** [3354]. **Hastings** [2806]. **HAVEGE** [2842]. **Having** [1855, 453, 960, 255]. **Hawaii** [4255]. **HC** [2928]. **HC-256** [2928]. **Heads** [2860]. **heap** [1915]. **heap-ordered** [1915]. **heat** [2886]. **Heavy** [3395, 3555]. **heavy-tailed** [3555]. **Heavy-traffic** [3395]. **Hecke** [743]. **hedging** [3493]. **Heikes** [923]. **Held** [4130, 4131, 4137, 4132, 4183, 4275, 4205, 4256, 4139, 4133, 4258, 4280, 4147, 4207, 4218, 4150, 4152]. **Helios** [3887]. **Hellman** [2764]. **Helmholtz** [3579]. **help** [2415]. **HEMT** [1496]. **Hermite** [3108, 1177]. **Herstellung** [176]. **Heston** [3775]. **Heterogeneous** [3432, 4071, 2883, 3307, 3372]. **Heuristic** [72, 2109, 3122, 2842, 3510]. **Heuristic-Based** [2109]. **heuristics** [3085]. **HI** [4317]. **Hidden** [1732, 3990]. **hiding** [3448]. **hierarchical** [3212, 3056]. **Hierarchy** [2214, 3517, 3019, 1617]. **High** [2437, 3537, 2158, 3844, 2783,

2698, 3187, 4110, 4122, 3335, 3336, 4033, 3345, 3216, 3899, 4324, 2552, 3703, 4097, 655, 2092, 3827, 3714, 3474, 3484, 1201, 3151, 3153, 101, 3648, 1067, 1338, 2697, 2785, 2703, 2788, 3103, 3198, 3322, 2608, 2874, 3446, 3112, 1740, 1957, 2195, 118, 3226, 3349, 129, 3607, 1977, 3613, 3614, 1984, 796, 2409, 227, 3072, 2994, 3082, 1204, 3836, 3638, 122, 2506, 2584, 4023, 3650, 3010]. **High-density** [2698]. **high-dimensional** [2703, 2788, 2409, 3082, 3836]. **High-efficiency** [4097]. **High-entropy** [3187]. **high-functioning** [3072]. **high-order** [3112]. **High-Performance** [2783, 3216, 3345, 3714, 3607]. **high-period** [3103]. **High-Quality** [2158, 4033, 2608, 1957, 2195, 1977, 2506, 2584]. **High-Speed** [2437, 3336, 3899, 3484, 3844, 2552, 1201, 2785, 3322, 1740, 118, 129, 796, 227]. **High-Throughput** [4122, 3703]. **Higher** [2040, 3308, 1713, 2465, 3304, 3596, 1258, 3003]. **Higher-Order** [1713]. **Highly** [1632, 3068]. **highly-uniform** [3068]. **Hilbert** [3065]. **Hill** [170, 4276, 896, 1813, 3245]. **Hilton** [4197, 4191]. **Hirschberg** [1902]. **Histogram** [3563, 1633]. **Histograms** [3784, 1320]. **Historical** [2773]. **History** [71, 89, 724, 2806, 3938, 3940, 2826, 68, 1395, 375, 3285]. **Hit** [1804, 2048, 4109, 1810]. **Hit-and-Run** [1804, 1810]. **Hitachi** [2143]. **Hitting** [2461]. **HK97** [3653]. **Hlawka** [876, 465]. **HMAC** [4123, 3955]. **HMAC-based** [4123]. **HMAC-DRBG** [3955]. **Hoare** [4261]. **Hoeffding** [2323]. **Home** [2536]. **homogeneous** [12, 1634]. **Homomorphism** [519, 2443]. **homomorphisms** [3294]. **Hong** [4275]. **Honolulu** [4255, 4317]. **honor** [4306, 4335]. **honour** [4261]. **Hopfield** [3516]. **Hopping** [4108]. **Hörmann** [3023]. **Horner** [2587, 242]. **Horseshoes** [2384]. **Horton** [1928]. **Hot** [4248]. **HotBits** [2926]. **Hotel** [4193, 4137, 4236, 4191, 4163, 4146, 4165, 4210, 4225, 4276, 4175, 4250]. **Houston** [4160]. **Huge** [3130]. **hundred** [1235]. **Hurst** [2368]. **HW** [3235]. **Hyatt** [4254, 4333, 4250]. **Hybrid** [3890, 3319, 4093, 355, 2583, 3386, 3161, 3304, 559]. **hyperbolas** [2141, 2430]. **Hyperbolic** [2836, 902, 1027, 1815, 1966, 2001]. **Hypercube** [4174, 939, 940, 1369]. **Hypercubes** [4188]. **Hypergeometric** [1371, 1182]. **hyperplane** [2271]. **Hyperplanes** [2273]. **Hyperrectangles** [1814]. **hyperspheres** [3410, 3082]. **Hypotheses** [175]. **Hypothesis** [444].

**I.** [896]. **IBM** [4135, 725, 817, 681, 1439, 1528, 480, 2626, 155, 1558, 494, 464, 4113]. **IBM-Compatible** [1528, 1558]. **ibre** [1060]. **IC** [2785, 3575, 3445, 3446, 2413, 2571, 3514]. **ICCMSE** [4297]. **ICCS** [4339]. **ICGA** [4272]. **ICGA-2001** [4272]. **ICICTA** [4323]. **icosahedral** [167]. **ideal** [817, 681]. **identical** [960]. **Identically** [2588, 3452]. **Identification** [1469]. **Identifying** [3342]. **identities** [1402]. **identity** [2599, 1966]. **IEEE** [4267, 4317, 4318, 4333]. **IETF** [3980]. **If** [1502]. **IFIP** [4316]. **II** [4257, 1270, 3421, 1722, 1818, 2282, 1835, 1947, 1242, 4339, 254, 1987, 2096, 2481, 657, 1658, 699, 1482, 534, 2676, 893, 2246, 1600, 2144]. **II.5** [767].

**IIASA** [4207]. **iid** [3312]. **III** [4246, 2283, 2073, 2480, 801]. **Illiac** [153]. **Illinois** [4182, 4278, 4158]. **Illumination** [2110]. **illusion** [3037]. **Illustrated** [25]. **illustrations** [7]. **Illustrative** [3002]. **IMA** [4256, 4288]. **IMACS** [4243]. **Image** [3573, 3627, 3628, 3396, 3405, 3936, 3592, 3606, 1473, 3528]. **image-cryptographic** [3936]. **Images** [1801, 2346, 1532]. **immediate** [2076]. **Immune** [2695]. **Immunity** [3537, 3841, 4091]. **immunity-resiliency** [4091]. **Impact** [3298, 3417, 1140, 3006]. **Impagliazzo** [4111]. **Imperfections** [649]. **implement** [74]. **Implementation** [1905, 4044, 3924, 3169, 1416, 1701, 1217, 2039, 2603, 3189, 1927, 3193, 2793, 3324, 1233, 1527, 1367, 2973, 3771, 1978, 3906, 4215, 2753, 612, 740, 3484, 1477, 2760, 1998, 1999, 3729, 1893, 3293, 1412, 2252, 3746, 3747, 3302, 2443, 3311, 2522, 2703, 4067, 476, 2874, 2801, 3332, 3203, 1957, 2195, 3456, 3347, 2308, 3613, 2743, 3979, 2229, 1670, 1786, 2670, 2763, 3509]. **Implementations** [1506, 2446, 2474, 3907, 3930, 2389, 2650]. **implemented** [1280, 4090, 3567, 1736, 1128, 3770, 1135, 3139]. **Implementing** [1336, 822, 3971, 1645, 1863, 1087, 935, 1053, 2809]. **implicated** [3751]. **implications** [4091, 3325, 557]. **implicitly** [1417]. **imply** [3328]. **Importance** [3107, 1358, 3806, 3602, 3521]. **important** [470]. **Impossibility** [3059, 1655]. **Impossible** [2752, 2135]. **Improper** [645, 1229]. **Improve** [3232, 2572]. **Improved** [1697, 3891, 1817, 1936, 2357, 1169, 2529, 2952, 2461, 3901, 2395, 2905, 3364, 2224, 3069, 3788, 4105, 907, 1032, 4070, 2055, 3881]. **Improvement** [3473, 1992, 1198, 2148, 2739, 3502]. **Improvements** [3758, 792, 3996, 3449, 2239]. **improves** [3921]. **Improving** [758, 3314, 1510, 3195, 3448, 4013, 281, 3137, 840, 3634, 3530, 3756, 1499]. **incident** [3966]. **included** [2959, 3719]. **including** [1169, 2090, 1266]. **Incomplete** [2695, 2567, 2755, 1252]. **incomputability** [3655, 3426]. **Incorporating** [4093]. **Increase** [3476]. **Increasing** [1073]. **Indefiniteness** [3181, 3409, 4060]. **indentation** [3653]. **Independence** [175, 4063, 3546, 2599, 1824, 1937, 2362, 2706, 2064, 1232, 2642, 802, 1392, 1572, 747]. **independences** [2095, 2096, 2480]. **Independent** [3015, 1418, 1107, 1212, 2165, 3675, 2171, 3030, 865, 3816, 2192, 1461, 1550, 1013, 524, 418, 973, 1197, 2230, 528, 1581, 396, 315, 944, 2588, 3991, 2590, 1492, 903, 2439, 3929, 2873, 48, 775, 1443, 382, 690, 3452, 84, 1965, 922, 1468, 417, 562, 696, 697, 1086, 2091, 1017, 3781, 34, 2765, 1600, 578]. **Indexing** [1845]. **Indifference** [2103, 3715]. **Indifference-Zone** [2103, 3715]. **Indistinguishability** [2746, 1529]. **Individuals** [8]. **induced** [3377]. **Induction** [3186, 1584]. **industry** [4152]. **inequalities** [1069, 1114, 305, 3596, 1969, 739, 741]. **Inequality** [414, 2073]. **inexpensive** [2589]. **Inference** [2047, 556, 1170, 1734, 2796, 3581, 2005, 4157, 2988]. **Inferences** [3663, 2761]. **Inferring** [1421, 1422, 3112, 1051, 1092, 1093]. **Infinite** [3068, 3389, 3390, 3885, 472, 3761, 1246, 1268]. **Infinite-dimensional** [3068]. **Infinitely** [3673, 2047, 2836, 3642, 2410]. **Influence** [3633, 1893, 4106, 2949, 1762, 3912]. **Information** [4254, 2350, 319, 3318, 692, 4291, 395, 4152, 812, 4139, 2992, 4208, 3285, 4152].

**Ingmar** [3339]. **Initial** [3593]. **Initialization** [2151, 2601, 1455, 3486, 3129]. **Initializing** [897, 1220, 1340]. **injection** [3359]. **inner** [2852]. **input** [3750, 2535]. **inputs** [2471]. **insertion** [1258]. **Inspired** [4093, 3921]. **Instance** [913]. **Institute** [4153, 4148, 4147, 4207]. **Integer** [1211, 2525, 2171, 3759, 1543, 4014, 3251, 4019, 2233, 1100, 1895, 1696, 3798, 4119, 1354, 3896, 785, 1131, 2979, 2091, 568, 620, 1605]. **integer-valued** [1696, 3798, 3896]. **Integers** [3027, 4030, 1299, 1416, 2267, 636, 113, 775, 1129, 1301, 3826, 1879, 1095]. **Integral** [1903, 823, 1013, 1402, 716, 350, 132, 3628, 717, 3627]. **Integrale** [278]. **Integrals** [152, 1940, 510, 330, 2011, 2527, 221, 222, 278, 99, 424, 574]. **integrands** [2258, 3041]. **integrated** [2616]. **Integration** [3022, 2280, 1004, 2812, 2101, 2231, 2126, 1611, 2258, 907, 4314, 1361, 2958, 1836, 3041, 1076, 2299, 1541, 2888, 3461, 1256, 2909, 977, 3266, 628, 2582, 2765, 2847, 671, 399, 465, 542, 808, 2909, 542]. **integrations** [1090]. **integrators** [2304]. **integrity** [4208]. **Integro** [3423]. **Integro-Local** [3423]. **Intel** [2067, 3688, 3455, 2468]. **Intelligent** [4323, 3570]. **Intensive** [2969, 4207, 4186]. **Inter** [3517]. **Inter-domain** [3517]. **Interactions** [1779]. **interactive** [1809]. **interchanges** [1743]. **interdependence** [588]. **Interface** [4168, 4155, 4160, 4148, 4185, 4186, 2075, 3356, 4080]. **Interfaces** [2446]. **Interim** [1805]. **Interleaver** [3729]. **interleaving** [3958]. **intermediate** [3144]. **intermediate-rank** [3144]. **Internal** [1915, 920, 2740]. **International** [4234, 4311, 4320, 4327, 4199, 4213, 4308, 4316, 4300, 4268, 4339, 4324, 4230, 4325, 4296, 4215, 4319, 4207, 4270, 4297, 4271, 4224, 4272, 4239, 4244, 4294, 4172, 4246, 4237, 4228, 4153, 4222, 4255, 4299, 4286, 4262, 4257, 4288, 4323, 4292]. **Internet** [3251, 2700, 2823, 4020, 3517]. **Internet-like** [3517]. **Interpolation** [2755, 3108, 1733, 777, 3865, 847]. **Interpretation** [6, 729, 385, 3429, 2087, 627]. **interruptions** [1028]. **Interval** [2440, 720, 959, 4072, 4014, 4019, 61, 3368, 2028]. **Intervals** [2348, 1814, 959, 1742, 44, 975, 150]. **intrainverted** [1737]. **Intrinsic** [2259, 1528, 1304, 1776]. **Intrinsically** [3707, 3951, 3984]. **Introduction** [3957, 2867, 2040, 3308, 2701, 3102, 3222, 1856, 2313, 3233, 1248, 1976, 262, 1335, 1700, 2261, 2694, 3420, 2940, 2355, 1741, 2738]. **invalidates** [3488]. **Invariance** [582]. **Invariant** [1912, 3065]. **Invariants** [3240]. **Inventor** [3552]. **Inverse** [1110, 4092, 3040, 3117, 3231, 187, 4277, 2577, 891, 894, 902, 1027, 3807, 1440, 324, 1078, 3817, 2079, 3605, 4016, 1982, 2905, 880, 2001, 1260, 1261]. **Inversen** [1039]. **inverses** [3236]. **Inversion** [3309, 3056, 3435, 3959, 3099, 3433, 2173, 3108, 3686, 2193, 2807, 3605, 3786, 1892, 3990]. **Inversion-based** [3056]. **inversions** [1517, 1476, 46]. **Inversionsmethode** [2173]. **Inversive** [2041, 1624, 1626, 1629, 1630, 1726, 1821, 2276, 2361, 2061, 2062, 2365, 2074, 2312, 2658, 2754, 3282, 3183, 2042, 1627, 1631, 1724, 1725, 1727, 1728, 1818, 1819, 1822, 1824, 1932, 1934, 1935, 1936, 2056, 2178, 2179, 2180, 2357, 2358, 2359, 2181, 2362, 2706, 1827, 2532, 1956, 2302, 2210, 2974, 2650, 4038, 1570, 1990, 2565, 2566, 2567, 2656, 2657, 2986, 3252, 2325, 2237, 2998, 3280, 3281,

3522, 2141, 2430, 3990]. **inverted** [2107]. **invertible** [3649, 3734]. **Inverting** [323, 3053]. **investigating** [416]. **investigation** [2713, 4096]. **Investigations** [1679, 1684, 2166, 1762]. **investing** [3862]. **invitation** [4142]. **Invited** [2531, 1647]. **Involving** [197, 342, 343]. **ion** [4124]. **IoT** [4075, 4051, 4053, 4055, 4125]. **iris** [3793]. **Irrational** [2520, 459, 2130, 1542]. **ISAAC** [2513]. **ISBN** [993, 3769, 3733]. **Ising** [2345, 2168, 1537, 1636, 2326, 2504]. **Island** [4166, 4164, 4310]. **isotrope** [542]. **Isotropic** [542]. **ISSAC** [4230]. **ISSAC'93** [4213]. **Issue** [3760, 2355]. **Issues** [2857, 3194, 3884, 2049]. **István** [1763, 1870]. **Italian** [994, 471, 16, 17, 492]. **Italy** [4228]. **Item** [272, 264]. **items** [1482, 70]. **Iterate** [3587]. **Iterated** [2917, 2248, 247, 2899]. **Iterating** [1777]. **iteration** [112]. **Iterations** [2620, 3398, 3811, 3448, 1966, 3481]. **Iterative** [1996, 1689, 1733]. **IV** [3110, 3860, 942]. **Ivy** [3688]. **IX** [4233, 170].

**J** [993, 897, 1278, 3023, 1076, 1546, 1043, 1089, 939]. **J.** [170]. **J3Gen** [3777]. **jaguar** [4241]. **James** [2518, 2903, 3078]. **Jansson** [516, 401, 484]. **January** [4170, 4252, 2696]. **Japan** [4199]. **Japanese** [167, 1992]. **Java** [2861, 2446, 3691, 2895, 3869, 3139]. **Java-implemented** [3139]. **JavaTalk** [2384]. **Jersey** [4333]. **Jitter** [3538, 3539]. **JMASM** [2945, 3048]. **JMASM1** [2708]. **jobs** [1851]. **jobstreams** [987]. **Johan** [3986]. **John** [1531, 1545, 1828, 2989, 4138]. **Join** [1415, 1851]. **Joint** [328, 4272]. **Jonathan** [4335]. **Jordan** [742]. **Jordanscher** [742]. **Jose** [4320]. **Joseph** [262]. **Joy** [3158]. **Jr** [170]. **Julius** [2700]. **July** [4213, 4237, 4153, 4130, 4300, 4230, 4251, 4310, 4147, 4272, 4219]. **Jump** [3113, 3206, 3207]. **jumps** [4006]. **Junction** [4089]. **Junction-Based** [4089]. **June** [4226, 4278, 4293, 4311, 4320, 4334, 4142, 4285, 4246, 4328, 4201, 4157, 4130, 4317, 4139, 4339, 4231, 4258, 4310, 4270, 4219, 4232, 4259]. **Jungles** [2412]. **Juniper** [3966]. **Justification** [2268, 1018].

**Kakutani** [3367]. **kappa** [3794]. **KASUMI** [2629]. **Keccak** [3666]. **KENO** [2117]. **KENO-Va** [2117]. **kernel** [3065]. **Kernels** [3066, 2015]. **Key** [3537, 3418, 2349, 3185, 3999, 3438, 918, 2536, 2965, 4012, 3057, 1655, 2097, 1565, 2573, 2002, 881, 3788, 1683, 4029, 3176, 3557, 4123, 2471, 3472, 1991, 3256, 4102, 4118]. **key-scheduling** [4102]. **Key-Stream** [3537]. **keyed** [434, 435]. **Keys** [3922, 3689, 1655, 3909, 2119, 2137, 3966, 2489, 4118, 2998]. **Keystream** [2614, 2954, 2983, 3332, 3628]. **keystreams** [1825]. **Khintchine** [2728]. **Kiev** [4172, 4213]. **Kinderman** [2922]. **kinetic** [3857]. **kinetics** [4106]. **Kingston** [4262]. **KISS** [3469, 3625]. **Klimov** [2937]. **Kloosterman** [1822]. **Kloosterman-type** [1822]. **KMCLib** [3857]. **Known** [1867, 3433, 2363, 805]. **Knoxville** [4174]. **Knuth** [3986, 1754, 698, 737, 3874]. **Kochen** [3655]. **Koen** [3100]. **Koksma** [2073]. **Kolmogorov** [64, 406, 72, 1171, 1856, 2313, 3233, 791, 2818, 98, 841, 190, 3631]. **Kong** [4275]. **Kongruenz** [1060]. **Kongruenz-Generatoren** [1060]. **konvexe** [33]. **konvexer** [742]. **Korea** [4286]. **Körper** [33]. **Kreyszig** [1967]. **kriging**

[3672]. **krivoi** [35]. **Kronecker** [3670]. **KY** [4299].

**L** [543, 597, 641]. **Laboratory** [4129, 4131]. **Lag** [613]. **Lagged** [2145, 2251, 1980, 2092, 2093, 2094, 1994, 3840, 2278, 1168, 1985, 2901, 1984]. **Lagged-Fibonacci** [1980, 2092, 2093, 2094, 3840, 1985, 2901, 1984]. **Lagrange** [1719]. **Lai** [3467]. **Lake** [4225, 4232]. **Lamar** [3050]. **Lambert** [3453]. **lamp** [2823]. **Landau** [2600, 3969, 712, 1145]. **Language** [995, 3939, 4041, 3789]. **language-based** [4041]. **languages** [3919]. **Laning** [170]. **Lansing** [4146]. **Laplace** [2612, 688, 3134, 3374]. **laptops** [2350]. **Large** [4129, 3423, 3677, 3678, 865, 688, 27, 2975, 3826, 4016, 2221, 187, 3371, 1581, 3094, 2946, 3194, 3316, 2875, 1363, 65, 74, 247, 96, 3974, 1090, 624, 232]. **Large-Order** [3677, 3678]. **Large-Scale** [4129, 187, 2221, 3094, 96, 3974]. **large-size** [74]. **largely** [992]. **Larson** [993]. **Laser** [3373, 3447, 4052, 3464, 3638, 3401]. **Lasers** [3249, 3278, 3392]. **Last** [2243]. **Latches** [4081]. **Latin** [2409, 3165, 4003, 3597]. **LatMRG** [2206]. **Lattice** [545, 584, 2041, 3022, 2521, 723, 2707, 2950, 2378, 3045, 2731, 3824, 3900, 2812, 607, 2487, 2830, 3080, 3144, 3267, 3378, 1591, 2773, 1060, 1153, 1209, 1325, 2160, 1923, 2871, 1516, 1823, 1350, 1351, 1169, 2618, 4073, 3589, 3590, 3042, 1176, 1177, 2533, 3343, 1541, 2302, 693, 731, 2305, 2308, 2476, 2550, 2633, 3461, 2551, 2640, 3975, 1977, 876, 3065, 3067, 1097, 3145, 3266, 3632, 2328, 1891, 3989, 399, 465, 3900]. **lattice-based** [3989]. **lattice-bases** [1176]. **lattice-sublattice** [3343]. **lattices** [2169, 2888, 4016, 2916]. **Lausanne** [4308]. **lava** [2823]. **LavaRnd** [2661]. **Law** [3565, 3371, 1581, 2248, 3197, 2792, 3328, 16, 199, 2188, 247, 17, 4037, 3246, 805, 2416, 3550, 3419, 3212, 3062, 2917, 913]. **Laws** [865, 1550, 2836, 578]. **Laxenburg** [4207]. **Layer** [3855]. **Layers** [3239]. **LC** [2993]. **LCG** [2707]. **LCGs** [2283, 2608, 2309]. **Leading** [3046, 636, 1073]. **leads** [1913]. **leads-to** [1913]. **Leakage** [2510]. **Leap** [4032, 3403, 2364]. **leap-frog** [2364]. **learnability** [2250]. **Learning** [3268, 2009]. **Least** [757, 546, 105, 1453]. **Least-Remainder** [105]. **leave** [3966]. **Lecons** [4]. **Lecture** [3769]. **Lectures** [265, 4]. **L'Ecuyer** [1485]. **Lee** [499]. **Left** [3623, 2007, 470]. **Left-Shift** [2007]. **legacy** [3930]. **Legal** [2787]. **Legge** [17]. **leggi** [16]. **Lehmann** [3339]. **Lehmer** [1716, 2271, 2272, 769, 3586, 3766, 922, 249, 3237, 2229, 493, 2127, 233]. **Lemma** [2677, 2505]. **Lemmas** [2615]. **Length** [3923, 183, 376, 469, 1279, 241, 1626, 1116, 1038, 833, 1867, 931, 1915, 1283, 217, 472, 1432, 1517, 1725, 1169, 868, 1956, 2537, 1459, 601, 602, 1755, 3254, 663, 2016, 3387, 3647, 3157, 3839]. **lengths** [2932, 2042]. **Less** [757, 901, 1063, 3058]. **Lesson** [1778]. **lessons** [3966]. **let** [4023]. **Letter** [476, 1241, 1860, 3076, 496]. **letters** [2989]. **leurs** [3]. **Leuven** [4300]. **Level** [3745, 2564, 1162, 4007, 3120, 1846, 3137, 2842]. **Lévy** [4114]. **Lewis** [764]. **Lexical** [2530]. **Lexington** [4299]. **Leydold** [3023]. **LFIB4** [4041]. **LFSR** [2352, 3965, 3311, 2477, 3472, 3948, 4117, 3403]. **LFSR-Based** [3948, 4117]. **LFSRs** [3992, 3997]. **Libgcrypt** [3893]. **Liblice** [4139]. **libraries** [2194].

**Library** [3549, 3927, 1070, 1347, 1236, 2638, 2736, 3054, 3126, 2737, 3357, 2216, 1566, 1869, 4058, 1487, 1608, 1691, 3547, 3743, 3744, 3799, 2935, 3422, 3998, 3436, 4001, 3326, 3753, 3895, 2958, 3125, 3768, 2559, 2560]. **Lie** [1996]. **Life** [2438, 3724]. **lifetime** [3574]. **light** [3638]. **Lightweight** [3906, 3526]. **Like** [2787, 2954, 2983, 3008, 479, 2097, 3832, 3517]. **Likelihood** [2367, 1035, 1167]. **Limit** [719, 1277, 2524, 1519, 2612, 3769, 3615, 3062, 2230, 2917, 2421, 3646, 578, 64, 3111, 3452, 1755, 3614, 3861, 417, 2826, 1199, 190, 2165]. **Limitations** [4111]. **limiting** [1762]. **Limits** [636, 86, 39, 2334, 2429]. **Lin** [2887]. **Lindberg** [1418]. **Lindley** [3453]. **Line** [2170, 2782, 449, 450, 3376]. **linéaire** [1380]. **linéaires** [2570, 2909]. **Linear** [400, 3013, 3961, 4045, 1420, 2603, 2942, 2786, 2045, 953, 3680, 2364, 2365, 1117, 1118, 1119, 3580, 1123, 862, 3033, 2879, 2068, 3113, 3206, 3207, 3971, 2296, 2625, 2960, 3690, 2541, 3695, 3696, 517, 784, 1382, 1383, 2473, 2549, 3124, 3351, 2645, 2976, 1858, 874, 486, 606, 1986, 833, 3619, 3134, 616, 878, 1874, 1093, 369, 2672, 3729, 2423, 374, 2771, 3734, 211, 1209, 1408, 3921, 3800, 584, 1503, 1065, 1422, 2442, 1706, 3188, 1923, 2169, 112, 3191, 1512, 1346, 588, 3894, 1817, 1430, 1518, 1228, 1288, 1351, 2182, 2281, 2363, 2453, 2454]. **linear** [957, 1354, 1292, 1356, 3327, 2953, 3111, 1737, 2719, 2802, 3112, 3757, 4073, 1126, 3338, 3589, 3590, 3815, 2624, 1009, 3219, 968, 1184, 3049, 1380, 2206, 2305, 2308, 2476, 2732, 2970, 1185, 2312, 872, 3611, 2739, 255, 2400, 2900, 2824, 3131, 2751, 1764, 3135, 699, 800, 801, 802, 879, 1195, 1569, 2908, 2570, 2909, 2910, 3068, 3069, 932, 1398, 1775, 1776, 974, 1051, 3831, 2915, 2916, 3076, 1783, 1261, 989, 1317, 3000, 3149, 3384, 3511, 3639, 3086, 3152, 3003, 1677, 1680, 13, 2927, 3528, 1898, 2338, 1060, 4011]. **Linear-Algebra** [1874]. **linear-complexity** [1569]. **linear-size** [3800]. **Lineare** [1060]. **linearer** [1009]. **linearity** [4015]. **linearization** [3882]. **Linearly** [3295, 3413, 3271, 1175, 2016]. **Link** [3362]. **linkage** [4152]. **links** [2074]. **Linux** [4068, 3038, 3698, 4079, 3264]. **Lipschitz** [3765]. **LISA** [4233]. **List** [673, 1993, 1782]. **list-update** [1993]. **Lists** [951, 905]. **Littlewood** [1969]. **LLL** [3042]. **LLL-spectral** [3042]. **LLRANDOM** [650]. **Lmcgrid** [3292]. **Load** [2282]. **loaded** [2542]. **Loads** [3186]. **Local** [3739, 3423, 736, 607, 1387, 1562, 1653, 1875, 3658, 1369, 3128, 1199]. **Locality** [3739, 3658]. **localization** [1702, 3434]. **location** [2666]. **Log** [761, 2529, 2411, 1113, 1955, 2534]. **log-concave** [1113, 1955, 2534]. **Log-Normal** [761]. **Logarithm** [2952, 2755, 2248, 3546, 247, 4095, 2917]. **Logarithmic** [894, 3792, 1021]. **logarithmically** [1011]. **logarithms** [1410, 1298]. **logic** [1913, 3445]. **logiciel** [1380]. **Logistic** [3430, 3134, 2113, 4105, 3304, 1711]. **logit** [1711]. **logspace** [1414, 1695]. **logspace-hard** [1414]. **lois** [805]. **London** [3769]. **Long** [3739, 908, 4065, 1922, 1512, 1813, 2452, 3336, 448, 2556, 1867, 1398, 2019, 1324, 3658, 3021, 3097, 1344, 2703, 2788, 1433, 1522, 775, 2381, 2733, 1983, 2099, 3069, 707, 2776]. **long-cycle** [2703, 2788]. **Long-Period** [908, 3336, 2019, 3021, 3097, 1522, 775, 3069, 707, 2776]. **Long-Range**

[2452, 1512, 1813, 1344, 1433]. **Longest** [2556]. **Longest-period** [2556]. **Look** [3310, 3684, 796, 847]. **Look-Up** [3310, 796, 847]. **Lookup** [835]. **Loop** [862]. **loops** [3265]. **Lorentzian** [685]. **Loss** [3893]. **lot** [3410]. **Loteria** [134]. **Lottery** [2111, 134]. **Louis** [4196]. **Louisiana** [4193]. **Lovasz** [2063]. **Low** [3739, 1909, 4065, 1926, 3026, 2712, 3465, 1255, 1390, 1768, 2225, 2407, 2231, 1592, 1794, 1890, 3292, 4104, 3658, 2939, 1422, 907, 1701, 1808, 3313, 3041, 3209, 4050, 3459, 1016, 1463, 2551, 2814, 2894, 3238, 3777, 3617, 1767, 2322, 3723, 2129, 2144]. **low-cost** [3777, 3617]. **Low-Degree** [3465]. **low-dimensional** [1808, 2144]. **Low-Dimensionality** [3026]. **Low-Discrepancy** [2712, 2225, 2407, 1592, 1909, 1255, 1390, 1768, 907, 1701, 3041, 2551, 2814, 1767, 3723, 2129]. **low-dispersion** [1390]. **Low-Order** [1926, 1422]. **Low-overhead** [4104]. **low-power** [3313]. **Lower** [1727, 2358, 1456, 1570, 2768, 1936, 3141]. **Lowness** [3896]. **LP** [2439, 2008]. **LPRng** [2563, 2116]. **LR** [1555]. **LSI** [1166]. **LSTMs** [4034]. **LT** [3431]. **Luby** [2147, 1866, 3251]. **Luc** [1316]. **Lucas** [3754, 3585, 2432]. **luck** [3939]. **luminescent** [3771]. **Lüscher** [2195, 1957]. **LUT** [3151, 3790]. **LUT-SR** [3790]. **LUTs** [3515]. **LWR** [4100]. **LWR-based** [4100]. **LXM** [4059]. **Lyapunov** [2891, 1858]. **lying** [1326]. **LZSS** [3427].

**M** [1028, 1971, 70, 3243, 1028, 1971, 3395]. **M.** [319, 395]. **M/M/1** [1971]. **M/M/m** [1028]. **M/PH/1** [3395]. **MA** [4311, 4268]. **Mach** [3188]. **Machine** [151, 2787, 142, 922, 3898, 839, 166, 3926, 775, 480, 2221, 3493, 192]. **Machine-independent** [922, 775]. **Machinery** [4129]. **Machines** [293, 1807, 3999, 327, 119, 3269, 118, 129]. **MacMillan** [508]. **MACs** [2036]. **MaD0** [3902]. **Made** [1524, 1849]. **Madland** [3873]. **Magma** [3561]. **Mahalanobis** [135]. **Main** [3503]. **Maine** [4204]. **mainly** [312, 452]. **maintenance** [3477]. **Majorana** [3749]. **Majority** [4024]. **Majorizing** [982]. **Make** [2787]. **Makes** [3455]. **makespan** [1796]. **Making** [3928, 2578, 2951, 3518]. **Man** [128]. **Management** [2444, 4266, 4224, 3292]. **Managing** [3871]. **Manhattan** [3766]. **MANIAC** [1210]. **Manipulating** [553]. **Manipulation** [3852]. **mantissa** [669, 1021]. **Mantisse** [669]. **Manual** [1284, 1967, 195, 3326]. **Many** [2225, 4049, 2733, 1201, 671]. **Map** [3430, 3651, 4105, 3992, 4029, 3903, 2113, 3380]. **Maple** [1967]. **Mapping** [3499, 1435, 1039, 3596]. **Mappings** [3291, 2804]. **Maps** [2645, 3411, 3016, 3304, 872, 3478, 4082, 4087]. **March** [4131, 4188, 4312, 4168, 4160, 4323, 4133, 4218, 4292]. **Margin** [3239]. **Marginal** [2262, 1855]. **Marginals** [2601]. **margins** [2329]. **Marinucci** [3769]. **Mario** [3904]. **Mark** [4175]. **Markov** [2598, 212, 1107, 1212, 2266, 3439, 961, 514, 664, 713, 2020, 1801]. **marks** [2346]. **Marotto** [3588]. **Marriott** [4181, 4154, 4269, 4163, 4210]. **MARS** [2539]. **Marsa** [4041]. **Marsa-LFIB4** [4041]. **Marsaglia** [3410, 2342, 2865, 1350, 1351, 1367, 2090, 2112, 1094, 3918, 3954]. **Marshall** [2957]. **Martuljek** [4239]. **Maryland** [4192, 4283]. **mashinakh** [352]. **masked** [3757]. **Masking** [4022]. **mass** [742, 1603]. **Massachusetts** [4148].

**Massen** [742]. **Massey** [3018, 3467, 3952]. **Massively** [4052, 1951, 3706]. **Mat** [3076]. **Materials** [3321]. **Math** [2160, 221, 696, 697, 2823]. **MathCW** [3927]. **Mathematica** [3712, 3778, 2122]. **Mathematical** [3927, 4137, 4204, 4132, 4153, 4157, 1242, 1243, 96, 3769, 4134, 250, 1088, 3868, 2412, 4136, 55, 57, 4144, 4243, 3733, 944, 466, 497, 236, 721, 1229, 2488, 209]. **Mathematical-Function** [3927]. **Mathematicians** [2663]. **Mathematics** [2438, 4137, 2864, 4132, 4153, 918, 4336, 1967, 1566, 1869, 4304, 4305, 4145, 139, 4335, 1757, 4152]. **mathématiques** [4134]. **MathLink** [2158]. **MATLAB** [3214, 2744, 3247, 2927]. **Matrices** [2352, 1190, 3151, 1272, 1637, 1136]. **Matrix** [1607, 2262, 593, 1294, 1362, 2224, 1325, 1159, 1432, 3340, 3692, 53, 4116, 1572, 2104, 2106, 3649, 3734, 1238]. **Matrixgeneratoren** [1238, 1362]. **matter** [4066]. **max** [1471]. **Maximal** [183, 1626, 1459, 833, 931, 2771, 1725, 2799, 3718, 3387]. **Maximal-Length** [931, 1459]. **Maximally** [3338, 3971, 2207, 2477]. **Maximum** [1283, 1035, 1167, 2288, 2883, 1774, 1916, 3119, 84, 2016, 3157]. **Maximum-length** [1283, 2016]. **Maxwell** [3618, 3828, 3143]. **May** [4166, 4171, 4176, 4182, 4187, 4192, 4203, 4212, 4221, 4226, 4234, 4235, 4253, 4260, 4273, 4283, 4298, 4327, 4135, 4224, 3781]. **mbedTLS** [3955]. **MC** [2304]. **McEliece** [3866]. **McGill** [656, 1198]. **McGraw** [170]. **McGraw-Hill** [170]. **MCNP** [1286, 3443]. **MCS** [4270]. **McShane** [508]. **MCV** [744, 804]. **Mean** [580, 1110, 770, 2883, 604, 2, 541, 1721, 1722, 2794, 1995]. **mean-square** [1721, 1722]. **meaning** [442]. **Means** [3675, 3050, 3147, 2130, 2624, 3473]. **Measure** [2253, 2378, 2594, 3806, 2956, 2969, 2118, 2681]. **measurement** [3313, 3447]. **measurements** [559, 3644]. **Measures** [3012, 3608, 2759, 636, 1825, 2299]. **measuring** [3504]. **Mechanical** [532]. **mechanics** [2940]. **Mechanism** [4026]. **medians** [439]. **Medical** [24, 299, 47, 73, 114, 115, 171, 172, 3609]. **Meeting** [4151, 4146, 4142, 4272]. **Meetings** [1160, 1179]. **Mehrfach** [642, 643]. **mehrfacher** [278]. **Mellin** [538]. **Mellon** [4150]. **Memorial** [4248]. **Memory** [2437, 2251, 3840, 2962, 4010, 3829, 4018, 3503, 3958, 1756, 1761]. **memoryless** [1307]. **Memristor** [3674]. **Mengen** [742]. **Merge** [596]. **merit** [1495]. **Merlin** [3141]. **Mersenne** [2784, 3305, 2787, 2870, 764, 3815, 3971, 4008, 1738, 919, 2895, 2402, 3060, 2568, 3486, 3262, 3501, 3785, 1792, 2848, 4023]. **Mersenne-Exponent** [1738]. **Mervin** [270]. **mesh** [3546]. **Message** [2036, 996]. **Messerschmitt** [1706]. **Metaheuristic** [4093, 4096]. **Metamodels** [1742, 3672]. **Metastability** [4081, 3276, 2978]. **Metastability-Based** [3276]. **Method** [2030, 267, 179, 762, 270, 196, 1221, 1222, 2525, 637, 1286, 2450, 1829, 220, 353, 645, 512, 25, 201, 1840, 1954, 649, 1013, 1130, 2973, 249, 2396, 2088, 604, 281, 336, 338, 360, 2398, 2557, 1986, 146, 2404, 2097, 187, 205, 616, 2224, 2228, 662, 19, 745, 529, 622, 706, 976, 881, 4338, 2234, 1673, 2997, 2919, 4022, 3518, 1681, 851, 541, 1406, 3794, 633, 947, 1409, 2340, 1273, 1417, 234, 1065, 1808, 195, 1216, 1278, 3099, 320, 997, 954, 1719, 3572, 588, 2173, 1225, 2181,

2183, 594, 595, 273, 769, 771, 352, 1008, 1363, 3686]. **method** [94, 3589, 1535, 1842, 1953, 67, 76, 4130, 1740, 1080, 2203, 924, 1014, 1043, 1185, 2972, 3055, 2553, 3704, 3613, 386, 832, 1134, 1135, 2399, 2558, 78, 1564, 926, 3063, 2907, 1018, 3979, 699, 801, 1195, 1990, 2104, 2106, 2321, 840, 666, 1094, 99, 189, 569, 882, 4156, 1099, 3786, 1403, 2918, 394, 713, 751, 2769, 2018, 193, 2922, 1892, 1321, 3879, 715, 177, 2249, 1489, 1896, 4086, 2587, 233, 7, 4087, 3882, 2144, 178]. **Méthode** [178]. **Methoden** [634, 1762]. **Methodology** [3575, 729, 2630, 2493, 4245]. **Methods** [1688, 579, 674, 4142, 2149, 3169, 2036, 3309, 549, 683, 2269, 1111, 1223, 2057, 2612, 639, 2370, 2795, 4331, 4321, 646, 514, 2197, 1451, 1455, 4309, 831, 792, 1656, 4133, 490, 835, 204, 617, 877, 1771, 2658, 2321, 1091, 4207, 704, 2231, 1881, 845, 4297, 1589, 2011, 2424, 2925, 4186, 466, 497, 634, 992, 1329, 897, 3842, 2598, 1499, 212, 2260, 3183, 2447, 112, 4274, 4329, 2059, 3439, 2527, 4275, 1169, 4279, 198, 223, 326, 916, 277, 1239, 3692, 4257, 1244, 3215, 4301, 967, 2734, 2887, 3856, 3941, 3228, 96, 789, 1133, 2479, 1769, 1770]. **methods** [1989, 4231, 4251, 4258, 2565, 4280, 4290, 3252, 492, 1050, 4136, 261, 1200, 2003, 3725, 2490, 885, 981, 986, 989, 290, 164, 4084, 2244, 849, 138, 1602, 1685, 1762, 2518, 2903, 1886, 3078]. **Metodi** [994, 492]. **Metric** [661, 2759, 3171]. **Metropolis** [1210, 2516, 2517, 2940, 1810, 1286, 2066, 2287, 2957, 2806]. **MHz** [2929]. **Miami** [4242]. **Michael** [2147]. **Michigan** [4146, 265]. **Mickey** [3166]. **Micro** [1510, 1147]. **Micro-Computers** [1510, 1147]. **Microanalysis** [257]. **microcomputer** [1173]. **Microcomputers** [1615, 1236, 1528, 1544, 1639, 1558, 1587, 1154, 1505, 1914, 1280, 1163, 1635, 1080, 1454, 1137, 1098, 2238]. **Microcontroller** [4018]. **microprocessors** [836]. **Microscopy** [1779]. **Microsoft** [4261, 2482, 2747, 2748, 2982, 3244, 3245, 1682]. **mid** [94]. **mid-square** [94]. **middle** [161]. **Milder** [3685]. **Millennial** [4261]. **Miller** [3552, 3754]. **Million** [63, 148, 393, 2665, 168, 1235]. **Milwaukee** [4229]. **MIMD** [1478]. **MIMO** [3643]. **min** [1471, 2671, 2995]. **min-entropies** [2671, 2995]. **min-max** [1471]. **mincing** [530]. **Miniature** [3845]. **Minicomputer** [822, 1148]. **minicomputer-based** [1148]. **Minimal** [3012, 1506, 1431, 2631, 1609, 1712, 3327, 4036, 3647]. **minimization** [3372, 1796]. **Minimum** [1911, 2714]. **Mining** [3689]. **Minkowski** [1153, 1176, 1177]. **Minkowski-reduced** [1153, 1176]. **Minneapolis** [4224]. **Minnesota** [4224, 4256]. **Miscellanea** [722, 823, 658, 717]. **Miscellaneous** [4128]. **Mises** [1507, 385]. **mismatches** [1847]. **Missing** [2787, 1422, 3112, 2301]. **Mission** [2135]. **Misson** [4312]. **Missouri** [4196]. **MISTY** [2724, 2629]. **MISTY-Type** [2629]. **misunderstandings** [1292]. **Mitchell** [1683]. **mitigations** [4050]. **mittels** [1009, 1899]. **Mixed** [293, 327, 840, 974]. **Mixing** [3703, 1303, 567, 1733, 1240, 3634]. **MIXMAX** [4035, 4017, 3876, 3915]. **Mixture** [1500, 1130, 2146, 1050, 3268]. **mixture-of-subsets** [3268]. **Mixture-plus-Acceptance-Rejection** [1130]. **Mixtures** [1550]. **ML** [1712]. **ML-sequences** [1712]. **MMIX** [3874]. **Mobile** [3834, 499, 483, 3636]. **Möbius** [444]. **mod** [173, 398]. **Mode**

[3220, 2663, 4101, 3221]. **Model** [2934, 3890, 3819, 186, 54, 3081, 1488, 3292, 814, 2345, 4106, 3886, 3551, 1157, 2698, 3846, 2167, 2168, 1537, 3120, 1754, 3775, 3477, 2001, 2326, 2327, 3268, 2504, 1603, 3290, 1605]. **Model-Based** [3819]. **Modeling** [4295, 1612, 3994, 2262, 4274, 3899, 3138, 1779, 3795, 1044, 1644, 2546, 3051, 228, 1594]. **Modelirovanie** [352]. **modélisation** [1594]. **modelled** [3176]. **Modelling** [2843, 4243, 1165, 1225]. **Models** [544, 507, 1747, 1871, 2146, 993, 3756, 961, 3212, 1845, 4076, 2814, 4154, 987, 2329, 2136, 3920, 2028]. **Modern** [3537, 4142, 3924, 1164, 2462, 4297, 3799, 4075, 4147]. **modification** [2033, 1614]. **Modified** [1025, 3430, 2180, 421, 2769, 3988, 1026, 320, 2302, 3908, 193]. **Modified-Logistic** [3430]. **Modular** [2797, 3040, 1194, 2577, 1440, 2203, 3236, 2905, 3990]. **Modulated** [2993]. **modulator** [3188]. **Module** [3043, 4125, 3301]. **Modules** [2660, 4128]. **moduli** [2442, 2169, 1715, 1346, 1363, 2400, 2900, 3365]. **Modulo** [3027, 250, 370, 374, 231, 2148, 957, 1292, 1356, 306, 732, 2732, 2970, 4016, 4038, 4116, 2570, 3069, 1776, 1486, 5, 3062]. **Modulus** [3678, 824, 1003, 1037, 1120, 1523, 2121, 572, 3000, 2690, 1516, 1627, 1631, 1727, 1728, 1818, 1933, 1934, 2179, 2180, 2357, 2358, 1352, 860, 958, 1230, 1231, 1353, 2199, 2302, 786, 3463, 2566, 2986, 1792, 2848, 3511, 3512, 3281, 3282, 3522, 2337]. **Molecular** [2592, 3935, 1951]. **molecular-dynamics** [1951]. **Moment** [1911, 1069, 1620, 2318, 741]. **Moment-Generating** [1911]. **Moments** [776, 3585, 3596, 2198, 1258]. **Monaco** [4270]. **Monica** [4132]. **monitoring** [3376]. **Monkey** [1861, 2112]. **Monkeying** [2980]. **Monographs** [3733]. **Monotone** [1112, 334, 2979, 2193, 3117, 3697]. **Monotonicity** [1121]. **Monster** [2556]. **Monte** [4142, 178, 2518, 112, 4314, 4275, 1636, 4301, 4309, 2903, 4231, 4251, 4258, 4280, 4290, 2321, 2117, 99, 189, 3078, 4270, 1886, 1797, 1210, 433, 2149, 3169, 349, 2155, 178, 2598, 179, 3094, 212, 3663, 1611, 2258, 1612, 1335, 1700, 2260, 2261, 2694, 3420, 234, 1420, 907, 2163, 3179, 1160, 90, 195, 504, 3566, 1919, 2447, 152, 2050, 3569, 3195, 1286, 4329, 1225, 3682, 197, 3439, 2280, 2364, 2454, 2527, 592, 4275, 1290, 3440, 1732, 2186, 2284, 1122, 728, 2370, 2795, 3935, 1236, 198, 352, 220, 1833, 3814, 512, 128, 223, 326, 916, 1836]. **Monte** [514, 2375, 2533, 3593, 3450, 4130, 1179, 1537, 963, 2727, 156, 157, 1244, 3215, 2198, 4301, 1460, 1377, 649, 1013, 2734, 2890, 3227, 4309, 3460, 3228, 1186, 3857, 2551, 2640, 3127, 3974, 1978, 2896, 159, 3709, 146, 657, 78, 4133, 3828, 2100, 2101, 3979, 877, 1771, 4231, 4251, 4258, 4280, 4290, 132, 2909, 492, 1140, 664, 1778, 1996, 1312, 745, 704, 2231, 2414, 261, 2490, 133, 4156, 4338, 1583, 1672, 2123, 1315, 4270, 1883, 3728, 2326, 394, 1146, 713, 1589, 3836, 290, 2847, 2919, 2424, 138, 2923, 1595, 1795, 2507, 2925, 1597, 265, 465, 466, 497]. **Monte** [2029]. **Monte-Carlo** [178, 1612, 234, 1225, 649, 3857]. **Monterey** [4188, 4233, 4259, 4152]. **Montgomery** [2079, 2203, 2905, 2577]. **monthly** [3477]. **Montreal** [4221, 4145, 4273, 4230]. **Monty** [3704, 2398, 2399]. **Mordell** [4061]. **morphological** [1721, 1722]. **MOSFET** [3243]. **most**

[432, 3799, 2203]. **mostly** [2782, 1941]. **mother** [1981]. **Motion** [3579]. **mots** [763]. **mouse** [3344]. **movement** [3344]. **moyennes** [284]. **MP** [1399]. **MPI** [3823]. **MPPC** [3845]. **MR** [2160, 1278, 1076, 1043, 939, 897]. **MR1414863** [2321]. **MR2084569** [3076]. **MT19937** [2967]. **Mulders** [3589]. **Muller** [270, 722, 771, 3055, 3613, 3773, 658]. **Multi** [3891, 4097, 929, 930, 3179, 3439, 1363, 221, 222, 969, 3903, 3975, 159, 1995, 2777, 3652, 3010]. **multi-access** [2777]. **Multi-Bit** [3891, 4097, 3652]. **multi-class** [969, 1995]. **multi-delayed** [3903]. **multi-dimensional** [3439, 221, 222]. **Multi-folding** [929, 930]. **multi-moduli** [1363]. **multi-point** [3179]. **multi-programmed** [3010]. **multi-sequences** [3975]. **multi-stage** [159]. **multicomputer** [1851]. **Multicore** [3849]. **multicyclic** [666]. **Multidimensional** [2960, 2299, 3825, 1256, 1598, 496, 907, 2868, 2532, 2958]. **multidimensionally** [1180]. **Multigroup** [290]. **Multiloop** [1922]. **Multimedia** [3269, 4040]. **Multinomial** [1109]. **Multiparty** [1414, 1695, 2944]. **multiphase** [4104]. **Multiple** [2444, 241, 152, 3193, 3677, 3678, 2452, 1004, 2955, 642, 1295, 510, 1443, 3816, 1452, 2474, 2548, 3824, 2975, 795, 2220, 1871, 2103, 2224, 936, 3499, 2921, 1490, 1686, 3294, 3659, 3184, 3305, 2946, 3194, 3316, 1288, 278, 1541, 2300, 2301, 2382, 3599, 2968, 3122, 1854, 2204, 2206, 2308, 2389, 1468, 1766, 1872, 2104, 2106, 3946, 1783, 3266, 574, 1792, 2681, 2768, 2769, 2848, 2849, 2999, 3001, 3084, 3085, 3384, 3510, 3512, 3640, 2682, 3286]. **Multiple-Comparison** [1686]. **Multiple-Recursive** [2224, 2104, 2106]. **Multiple-Valued** [241]. **multiples** [2682]. **Multiplexed** [2718]. **Multiplication** [2203, 1194, 1604]. **Multiplications** [3040]. **Multiplicative** [267, 545, 408, 824, 1003, 1037, 1120, 1353, 1523, 3343, 2202, 1747, 658, 2121, 572, 537, 2337, 2160, 911, 1614, 722, 320, 1714, 440, 1433, 860, 958, 1230, 1231, 557, 1440, 2199, 4016, 2213, 2901, 1018, 3365, 933, 3089]. **multiplicatively** [473]. **multiplicatively-generated** [473]. **Multiplicators** [498]. **Multiplier** [4117, 1792, 2848, 3149, 3639, 2337]. **Multipliers** [2473, 2548, 1065, 2442, 1914, 1346, 2272, 2526, 689, 3599, 3049, 786, 2918, 4083, 2768, 2999, 3084]. **multiplikativ** [440, 473]. **Multiply** [746, 2690, 2265, 2799, 643]. **multiply-with-carry** [2265, 2799]. **Multiprocessor** [1498, 1927, 1689]. **multiprocessors** [4174, 1756]. **multiprogrammed** [987]. **multiprogramming** [1162]. **multisequences** [3989]. **multispin** [1312]. **Multistep** [1306, 1495]. **multithreading** [3701]. **multivariable** [223]. **Multivariate** [2855, 581, 1804, 3022, 2869, 1349, 2620, 1950, 1296, 2303, 2812, 3480, 3369, 3499, 3500, 3274, 433, 2935, 3096, 2270, 1187, 2647, 794, 2907, 3481, 3482, 1578, 987, 3985]. **Murmur** [3634]. **musical** [3795]. **mutual** [929, 930]. **Mutually** [865]. **MUX** [4104]. **mV** [3434]. **My** [2137, 3966].

**N.A.T.O** [4140]. **nach** [11]. **Nacional** [134]. **Name** [3600, 805]. **Nanotubes** [3945]. **Naor** [3825, 2672]. **Nash** [3211]. **National** [4131, 4254, 4280, 134, 4142, 91]. **NATO** [4147]. **Natural** [2172, 1357, 3711, 3864, 526, 2245, 2118]. **Nature** [4093, 790].

**Nature-Inspired** [4093]. **Naval** [4152, 650]. **NBA** [2111]. **NC** [2606]. **NDSS** [4312]. **NDSTRNG** [4107]. **near** [2624, 4139]. **nearby** [2209]. **nearest** [1369]. **Nearly** [4069, 1513, 255]. **NEC** [1994]. **Need** [724]. **Needs** [730]. **Negative** [2288, 846, 350, 4047, 1249]. **nei** [994]. **neighbor** [1369]. **neighborhood** [2670, 2763]. **neighborhood-of-four** [2670, 2763]. **Nested** [1004, 2507]. **net** [2102, 4099, 2259]. **Netherlands** [4177, 4339]. **Nets** [3025, 2408, 2984, 2108, 2417, 4314, 2832, 2494, 628]. **Netscape** [2187]. **Network** [4312, 2043, 3334, 3689, 2729, 4099, 3476, 3393, 2133, 2256, 3571]. **networked** [3329]. **Networking** [4324]. **Networks** [1415, 3964, 3031, 3334, 3711, 3864, 3211, 3858, 3912, 2000, 3516]. **neuen** [11]. **Neuere** [634]. **Neumann** [3367, 3535, 3654, 1029, 3932, 554, 594, 595, 1828, 1441, 926, 1777, 2989, 4138]. **Neural** [3964, 2729, 3571, 3756, 3516]. **Neuroscience** [1386]. **neutron** [1225, 3578]. **Nevada** [4226, 4267, 4318, 4231]. **Newer** [634]. **Newman** [597, 641, 543]. **News** [2350, 3944]. **Newton** [4029, 3096]. **Newton-based** [3096]. **Nicholas** [2516]. **nicht** [634]. **nicht-gleichverteilten** [634]. **Niederreiter** [1886, 1909, 2760, 2494]. **Nillsen** [3733]. **nineteenth** [4176]. **Ninth** [4148, 4233]. **Nisan** [4111, 3568]. **NIST** [3098, 2965, 2884, 3137, 3719, 3509, 3952]. **NIST-Recommended** [2965]. **Nix** [3873]. **NJ** [2147]. **nm** [3434, 3770]. **NMA** [4257]. **No** [196, 3898, 897, 1278, 1076, 1043, 2321, 3076, 939, 2015, 70]. **node** [2454, 1836]. **nodes** [3211]. **Noise** [180, 820, 2269, 30, 354, 355, 1858, 453, 3362, 55, 57, 2993, 629, 430, 2691, 2522, 2874, 479, 3446, 3447, 3686, 2298, 3218, 2892, 2972, 3055, 2978, 3464, 251, 2413, 2571, 3071, 3728, 3504, 2846]. **noise-based** [2413, 2571]. **noise-like** [479]. **Noises** [3404]. **Noisy** [1801]. **nom** [805]. **Nombres** [344, 904, 4126, 2863, 763, 322, 698, 737, 2570, 4145]. **Nomograms** [1284]. **Non** [1411, 3412, 3923, 3843, 1809, 4107, 823, 1224, 2789, 351, 3041, 25, 1841, 517, 3603, 788, 2737, 3357, 521, 522, 1387, 3982, 846, 2846, 2423, 3086, 3152, 2425, 716, 3435, 12, 3312, 1717, 1228, 1288, 1351, 3934, 768, 1963, 2632, 2305, 2644, 872, 3972, 2219, 40, 3067, 3947, 568, 620, 2001, 189, 3875, 3786, 1792, 2848, 3279, 51, 717, 3528, 1316]. **Non-adaptive** [3843]. **Non-Archimedean** [3412]. **Non-biased** [2425]. **Non-Boolean** [3923]. **Non-Deterministic** [4107, 2846, 3972, 3279]. **non-homogeneous** [12]. **non-iid** [3312]. **non-integer** [568, 620]. **Non-Integral** [823, 716, 717]. **Non-interactive** [1809]. **non-linear** [1228, 1288, 1351, 872, 3528]. **non-Mersenne** [1792, 2848]. **Non-Negative** [846]. **Non-Normal** [25, 517, 40, 2001]. **non-parametric** [51]. **Non-Poisson** [521, 522]. **non-prime** [3067]. **non-random** [189]. **Non-Randomness** [1387, 3875]. **non-recursive** [3947]. **Non-standard** [3982, 1963]. **Non-Stationary** [351, 788, 2632]. **non-successive** [2305]. **Non-Uniform** [1411, 2789, 2737, 3357, 1224, 3041, 1841, 3603, 3086, 3152, 3435, 1717, 3934, 768, 2644, 3786, 1316]. **non-uniformity** [2219]. **nonalgebraic** [2776]. **nonanalytic** [1297]. **Nonce** [3553]. **Noncentral** [827]. **nondeterministic** [2076]. **Nonempirical** [2745]. **Nonidentically** [3423, 607, 1197].

**nonintegral** [856]. **Noninverse** [1584]. **Noninvertible** [1303]. **Nonlinear** [3013, 3959, 2057, 2177, 2277, 3027, 3199, 1038, 825, 3033, 2465, 3902, 1303, 1565, 1867, 3716, 1770, 2487, 2985, 2025, 1683, 2938, 3304, 1512, 1516, 1820, 1823, 1931, 1937, 2274, 1352, 2802, 3204, 2200, 2201, 3217, 3225, 3463, 310, 2824, 3131, 1391, 1392, 2655, 2756, 3253, 3479, 3480, 882, 3630, 3003, 1603, 3882]. **Nonnegative** [3673, 3371, 980, 3642]. **Nonnormal** [1349, 2907]. **Nonnormality** [400, 1126, 369]. **Nonoverlapping** [2054, 2056, 1822, 2237]. **Nonparametric** [675, 556, 1170, 1734, 2796, 3581, 3695, 3696, 292]. **nonprobabilistic** [1637]. **nonrandom** [628]. **Nonrandomness** [3508, 1373]. **Nonrecursive** [550, 3291, 2776]. **Nonsingular** [4025]. **nonskewed** [1261]. **nonsuccessive** [2768]. **Nonuniform** [1688, 996, 3101, 3024, 1226, 2882, 2935, 2936, 3023, 2872, 783, 2813, 1882, 2012, 3679]. **nonuniformly** [634]. **NOR** [4018]. **Norfolk** [4218]. **Nörlund** [60]. **Norm** [3608]. **Normal** [1326, 579, 1025, 580, 756, 2693, 3741, 581, 819, 3662, 583, 906, 3423, 1911, 761, 1284, 439, 858, 323, 644, 2722, 25, 599, 1370, 330, 517, 3897, 780, 1549, 1461, 1550, 333, 3048, 1750, 1751, 254, 280, 281, 336, 360, 451, 792, 1651, 2651, 187, 204, 3978, 419, 700, 701, 839, 3870, 148, 393, 2665, 1581, 4057, 287, 846, 891, 750, 2330, 8, 168, 1056, 2925, 809, 3287, 2588, 633, 1329, 1409, 994, 3095, 3747, 182, 2696, 1215, 240, 15, 547, 58, 1341, 997, 4070, 554, 1165, 2184, 2457, 2458, 2611, 141, 594, 595, 771, 1126, 1076]. **normal** [1535, 1243, 1133, 158, 18, 417, 283, 337, 340, 1982, 1017, 160, 490, 796, 40, 929, 930, 1399, 364, 2664, 2001, 977, 3075, 883, 230, 135, 191, 847, 289, 164, 4084, 2247, 70, 3736, 3892, 3011, 436, 303, 481, 365]. **Normale** [3011]. **Normali** [994]. **Normalisation** [3535, 3654]. **Normality** [517, 750]. **Normalizing** [894]. **Normally** [400, 637, 323, 369, 43, 1514, 3908, 2651]. **normally-distributed** [1514]. **normalverteilter** [1514]. **NORTA** [2601]. **North** [4190, 4211]. **Norway** [4292]. **Note** [127, 2865, 270, 58, 590, 591, 379, 726, 1291, 224, 1179, 923, 447, 2977, 1191, 86, 418, 205, 391, 459, 423, 3393, 2774, 1685, 407, 897, 2255, 3798, 1063, 236, 182, 1033, 1928, 1529, 2294, 2295, 1953, 3128, 1258, 2433]. **Notebook** [2158]. **Notes** [400, 583, 239, 298, 957, 323, 410, 243, 517, 2544, 3769, 250, 389, 366, 369, 944, 407, 150]. **notion** [1246, 651, 1055]. **Novel** [3537, 2525, 4093, 3398, 3551, 3176, 3302, 4067, 3332, 3333, 3936, 2963, 3609, 3472, 3531, 3793]. **Novelty** [4122]. **November** [4199, 4275, 4255, 4158, 4161, 4190, 4197, 4223, 4263, 4324, 4287, 4280, 4165]. **ns** [3393]. **ns-2** [3393]. **NSWC** [1566, 1869, 1487]. **NTL** [4058]. **Nuclear** [3814, 3578, 1597, 4137]. **Num** [221]. **Number** [3654, 1407, 1411, 2339, 2437, 293, 4088, 2145, 2251, 3013, 1493, 1211, 1905, 3797, 853, 3297, 401, 3167, 3168, 2151, 2343, 2344, 3169, 2781, 3017, 2155, 3416, 3417, 4126, 3548, 3549, 3661, 758, 2257, 2259, 2159, 1501, 1418, 3845, 2349, 3554, 3961, 4045, 1213, 2518, 1421, 3558, 2350, 2351, 2865, 3020, 3178, 908, 2163, 909, 910, 3559, 2164, 503, 1912, 822, 1506, 3563, 3428, 4089, 2039, 2444, 3306, 3430, 4065, 4107, 3674, 2445, 1281, 1161, 1615, 2354, 2446, 3310, 1220, 1282, 1340, 3189, 405, 549, 2787, 1510, 1926, 2869, 2945, 1716, 1927,

2523, 3195, 3677, 3967, 4046, 4121, 2704]. **Number**
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[2218, 2749, 2903, 4099, 657, 1472, 1192, 2404, 1475, 1563, 2220, 1867, 1763, 1304, 3828, 1193, 3133, 1089, 4079, 1870, 2569, 2659, 2757, 3717, 611, 740, 875, 2317, 3476, 658, 798, 799, 3716, 1771, 1875, 2105, 2224, 3945, 1774, 68, 1395, 662, 4100, 931, 3484, 1397, 4054, 1994, 1666, 1198, 1092, 744, 4198, 1781, 1998, 3722, 3872, 3913, 2002, 421, 1481, 842, 3373, 1400, 2838, 935, 1053, 3494, 3495, 3496, 3497, 2120, 229, 3259, 936, 1020, 806, 2667, 3498, 3499, 3500, 3262, 3727, 2993, 2121, 3834, 3375, 3376, 1202, 2493, 2669, 2841, 532, 3264, 938, 4291, 3079]. **Number** [886, 887, 1586, 1587, 1588, 2125, 4058, 3081, 988, 888, 3267, 2240, 1886, 572, 2498, 2501, 2503, 630, 890, 1262, 3379, 3507, 891, 537, 3269, 2130, 3637, 3148, 3951, 3984, 2678, 2680, 2921, 3385, 1405, 1485, 2019, 3273, 3386, 1147, 3151, 3274, 3515, 3878, 3276, 3389, 3390, 575, 2851, 1678, 3391, 3279, 1679, 2246, 3393, 1057, 428, 1893, 2135, 2854, 1150, 1206, 3283, 1682, 3733, 3398, 1323, 2510, 2139, 2512, 2688, 3400, 3648, 429, 1058, 1152, 1324, 3006, 1799, 88, 3524, 3288, 3402, 1604, 3792, 3403, 3527, 3291, 3735, 3404, 3293, 3529, 852, 3407, 4145, 1267, 3408, 2436, 3435]. **number**
[2778, 3409, 2589, 1154, 1209, 1327, 1491, 3737, 2690, 1412, 816, 3411, 4105, 1270, 3161, 1331, 1690, 817, 3538, 3539, 3840, 2032, 1904, 500, 2515, 3738, 2148, 2341, 3958, 1693, 1496, 3296, 4028, 2342, 3544, 2255, 3885, 2345, 4106, 4029, 3016, 3546, 3547, 3659, 3743, 3744, 3799, 1061, 1062, 3093, 3660, 350, 3415, 3886, 1499, 467, 676, 3551, 3171, 3746, 3747, 1698, 3172, 1699, 3844, 1503, 3299, 3300, 3421, 1419, 2938, 3422, 3996, 2161, 3176, 3301, 1064, 3556, 821, 1065, 1908, 1214, 2037, 678, 1703, 2696, 2784, 3021, 3097, 1108, 1423, 3098, 3803, 2442, 2785, 4246, 635, 911]. **number** [1505, 1706, 4204, 1707, 2940, 1708, 1709, 3303, 3304, 1216, 3929, 404, 1614, 1914, 3427, 1425, 722, 547, 3184, 3305, 3564, 3804, 1916, 3099, 3307, 1918, 3187, 1280, 320, 3998, 3748, 3566, 1919, 2168, 2263, 681, 1711, 2044, 2264, 3190, 2045, 2169, 2265, 2355, 470, 1031, 1924, 2046, 3313, 2356, 1344, 1511, 1512, 1714, 1813, 3315, 3434, 997, 1428, 1508, 1509, 1032, 3569, 1618, 1619, 1718, 2788, 2870, 3749, 3931, 1346,

472, 3571, 1928, 4067, 636, 505, 2947, 3750, 3318, 3319, 1622, 4068, 3320, 4001, 408, 1115, 3751, 1002, 1163, 1430, 2791, 2271, 2272, 2526, 3198, 3108, 1515]. **number** [914, 3322, 1433, 1517, 1631, 1724, 1725, 1728, 2059, 1228, 1288, 1351, 1352, 3574, 2949, 1939, 2061, 2182, 2183, 2281, 2363, 2607, 2608, 3576, 1434, 2951, 3811, 725, 2611, 1732, 1168, 1522, 2613, 1826, 1230, 1231, 1353, 2064, 3934, 441, 273, 1234, 728, 3812, 1291, 1074, 1292, 1355, 1437, 1526, 275, 3032, 2368, 3753, 863, 1005, 3935, 2717, 3813, 2464, 557, 1173, 380, 413, 2799, 1736, 1832, 774, 478, 2876, 777, 3756, 4006, 2619, 2801, 3447, 3895, 2067, 2189, 2802, 3204, 3757, 3448, 3335, 1834, 1835, 1944, 2069, 2070, 3588, 689]. **number** [4007, 4074, 3338, 3589, 3590, 3815, 1945, 3592, 2074, 2294, 2295, 2376, 1948, 2075, 2624, 3937, 1444, 2297, 3761, 779, 4049, 2379, 1951, 868, 3450, 2963, 1445, 1446, 76, 3344, 1956, 1241, 1635, 224, 383, 202, 1180, 3764, 1242, 2467, 154, 1537, 1538, 1539, 1957, 2195, 357, 384, 2513, 1080, 2540, 4034, 3598, 2196, 118, 1128, 1183, 2964, 3456, 1846, 1454, 2199, 2300, 2301, 2381, 2382, 3599, 1010, 2200, 2201, 3217, 3218, 3221, 2544, 1456, 2885, 4011, 922, 1012, 1245, 1458, 1741, 783, 3225, 4013, 1459, 1642, 1460, 2967, 2471, 4095, 601, 602, 248, 2968, 3049, 3122, 830, 1378]. **number** [3458, 1381, 1646, 1854, 1973, 2204, 2209, 2306, 2308, 2309, 2389, 2390, 2391, 2392, 2393, 2634, 2636, 2733, 2887, 2889, 2970, 3125, 3462, 3700, 3768, 3940, 3348, 1553, 1185, 3459, 1132, 3226, 3349, 2969, 786, 2891, 2893, 3056, 3229, 2312, 3857, 129, 484, 1749, 3701, 3230, 1556, 485, 872, 3606, 3607, 3972, 4114, 2646, 3770, 2978, 4077, 1857, 3974, 3128, 3464, 3609, 3612, 3858, 3904, 1977, 1648, 1859, 1980, 653, 3773, 3861, 3706, 3358, 3359, 3708, 449, 450, 487, 523, 656, 793, 1085, 1190, 1560, 1561, 1650, 1757, 1983, 2315, 2741, 2820, 3469, 2743, 2899, 3240, 4017, 3616, 1864]. **number** [1984, 1985, 2479, 2559, 2560, 3709, 3775, 3827, 3710, 2401, 2402, 2822, 3060, 3129, 3245, 3131, 4116, 3617, 2825, 2906, 1762, 1657, 796, 456, 457, 834, 3778, 797, 3361, 1088, 1137, 3472, 927, 836, 3363, 612, 3714, 3474, 3064, 614, 1018, 659, 1138, 1309, 1661, 1769, 1770, 2104, 2567, 2655, 2756, 3254, 3067, 3830, 3368, 3478, 2908, 3479, 3480, 619, 663, 3255, 880, 3783, 3136, 2570, 2910, 2987, 3483, 2229, 3370, 3869, 1477, 1140, 493, 527, 1090, 1311, 1478, 1775, 2112, 974, 1399, 3256, 3981, 2571, 2113, 567, 3621, 2115, 1312, 3488, 804]. **number** [3070, 3949, 1141, 621, 2572, 1999, 3491, 260, 1142, 623, 368, 843, 3624, 2414, 1668, 3982, 3072, 1097, 1579, 3074, 1098, 2762, 3140, 1670, 937, 979, 4102, 1201, 3726, 707, 2575, 3876, 3914, 3915, 3077, 711, 625, 2123, 3078, 2418, 1585, 3502, 1883, 494, 3627, 1403, 1484, 1674, 1786, 2124, 2238, 2239, 2918, 3787, 2670, 2763, 1787, 1884, 2327, 2495, 3504, 847, 1885, 4103, 3950, 3835, 3632, 2241, 2496, 1204, 2674, 2844, 3633, 989, 2845, 2504, 3837, 4059, 4083, 2581, 208, 3146, 3635, 2675, 2676, 4041, 3636, 3381, 3638, 2920, 2332, 2422, 2583, 2766, 2681, 2767]. **number** [2769, 2849, 2999, 3000, 3001, 3084, 3085, 3149, 3510, 3511, 3512, 3639, 3640, 3272, 3513, 3514, 1486, 1675, 1891, 2018, 3086, 3150, 3152, 3790, 3838, 2425, 3516, 3388, 167, 3003, 4060, 2507, 1677, 1320, 991, 3153, 2852, 4061, 3518, 3520, 1103, 2134, 1104, 3732, 4042, 2585, 3644, 232, 1601, 1894, 3087, 3645, 1798, 2687, 3399, 2024, 2140, 2249, 3401, 2025, 464, 3007, 3157,

2586, 3286, 3523, 3649, 3734, 1800, 2435, 2337, 2689, 2775, 3089, 3526, 3289, 4086, 3528, 3090, 3290, 3990, 2776, 2929, 2777, 3405, 3406, 3531, 3009, 4087, 3533, 3793, 1268, 1606, 578, 3010, 3892, 3570, 3679, 4113].
**Number-theoretic** [2317]. **Numbers** [3536, 1688, 498, 815, 3011, 2855, 2592, 1692, 2858, 2149, 3740, 2254, 948, 1332, 3545, 2693, 295, 1334, 3662, 951, 2158, 3801, 2695, 239, 183, 761, 2520, 2041, 1219, 216, 2605, 3848, 552, 637, 271, 724, 1623, 2449, 1227, 1625, 1629, 1726, 1930, 2054, 2060, 2177, 2273, 2275, 2277, 3027, 2360, 2280, 2365, 2710, 861, 1072, 3442, 49, 323, 410, 865, 3330, 1357, 3582, 3583, 4005, 4030, 4072, 244, 2465, 2620, 2371, 511, 325, 381, 2623, 2722, 3853, 3342, 1841, 1079, 356, 2725, 329, 2727, 155, 1543, 4112, 1848, 3766].
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**Numer** [939]. **numeration** [1036, 1036]. **Numeri** [994, 471, 492].
**Numerical** [718, 2857, 1218, 4132, 683, 351, 1004, 1829, 1633, 4321, 1361, 510, 277, 646, 1239, 1451, 1971, 2483, 3247, 1780, 2231, 494, 1789, 4138, 291, 671, 265, 1602, 4145, 1613, 3433, 3894, 1632, 2958, 2072, 1076, 2807, 2194,

4257, 1541, 23, 1384, 3463, 1133, 1256, 2322, 977, 1887, 2126, 2582, 2765, 1593, 1892, 399, 542, 808, 2341, 2255]. **Numerics** [4228, 4239, 4244]. **numérique** [542, 4145]. **numeros** [134]. **nVidia** [3349]. **NY** [4327, 4265].

**O** [993, 1076]. **Ob** [35]. **obeying** [2029]. **Obfuscation** [3297]. **Obituary** [2516]. **Object** [1826, 2733, 3607]. **object-oriented** [2733, 3607]. **Objectives** [2612]. **Oblivious** [4031]. **observation** [1608, 1691, 1721, 1722]. **Observations** [875, 1101, 350, 23]. **Obtain** [3337, 2625]. **Obtained** [3801, 550, 1768, 134, 1024]. **Obtaining** [704, 881, 67, 976, 1403, 177]. **obtenida** [134]. **OCCAM** [1477]. **Occupancy** [2710]. **October** [4254, 4174, 4286, 4164, 4179, 4184, 4190, 4196, 4206, 4229, 4238, 4242, 4267, 4318, 4333, 4146]. **octrees** [1938]. **odd** [2015]. **Odell** [543, 597, 641]. **Odyssey** [4269]. **off** [4091, 2794]. **Offer** [2628]. **Office** [4142]. **Offord** [1969]. **offs** [1695]. **Offset** [3208]. **Olds** [4146]. **OMAC** [3364]. **On-line** [3376]. **On-the-Fly** [3375]. **on/off** [2794]. **One** [2030, 3739, 757, 3552, 2170, 2285, 2466, 3758, 2720, 1638, 1188, 1302, 1647, 449, 450, 486, 2556, 740, 2109, 2232, 1671, 3388, 3651, 1605, 3658, 901, 3449, 1449, 3211, 1453, 188, 2681, 1205, 5, 3406, 3881]. **One-chip** [3388]. **one-class** [3406]. **one-dependent** [1453]. **One-Dimensional** [3651, 188]. **One-line** [449, 450]. **one-shot** [3211]. **One-Sided** [486]. **One-Table** [2030]. **One-Time** [3552, 2285, 2232]. **One-Way** [3739, 3758, 1647, 2466, 1638, 1188, 1302, 3658, 3449, 1449, 3881]. **Ones** [1397, 2115]. **Online** [3983, 2669, 3778, 3136]. **Only** [2787, 3433, 3445, 3692, 2539]. **Ontario** [4262, 4219]. **OpenACC** [4041]. **OpenBSD** [2448]. **OpenCL** [3998]. **OpenMP** [4041]. **OpenSSL** [3880, 3172]. **Operating** [3104, 3105, 3320, 3120, 1260]. **operation** [3164, 4082]. **Operational** [2044, 4140]. **Operations** [2348, 4266, 4205, 1744, 1633, 2893, 1148, 4205]. **operator** [2033]. **operators** [112, 2428]. **opinion** [2820]. **Optical** [3188, 2705, 3707, 2581, 3648, 3346, 2575]. **Optimal** [3923, 1065, 2164, 2442, 1346, 3808, 3933, 4069, 1721, 1722, 596, 689, 647, 691, 733, 3779, 1306, 3251, 1482, 1405, 1425, 2367, 2624, 2537, 3457, 2080, 3241, 3135, 838, 2918, 1721, 1722]. **Optimality** [596, 1124, 1094]. **optimisation** [3715]. **Optimised** [2423, 3151, 3515]. **Optimization** [3573, 2608, 4321, 4093, 4112, 2469, 1971, 1972, 4277, 2128, 1490, 4172, 3298, 3417, 3096, 2607, 2805, 4207, 3723, 4041]. **Optimized** [3368, 3500, 3322, 3981]. **Optimizing** [3952, 3402]. **Optimum** [664, 629]. **Oracle** [3925]. **orbit** [4006]. **Orbits** [2169, 3016]. **Order** [2438, 1713, 1926, 3677, 3678, 3028, 644, 1383, 1747, 2975, 3246, 54, 704, 2685, 1275, 1422, 3963, 2946, 3194, 3316, 1071, 3112, 1366, 2723, 2666, 46, 3384, 3512, 3640]. **Order-Disorder** [54]. **Ordered** [2714, 1803, 150, 1915, 1035, 3200, 1167, 41]. **ordering** [3806, 2632]. **Orders** [2465, 1073, 2681, 3003]. **ordinal** [439]. **ordinateur** [763]. **Oregon** [4260, 4246]. **organic** [3566]. **Oriented** [3173, 2704, 3475, 3476, 3262, 1826, 2733, 3607]. **Origin** [1828]. **origins**

[4330]. **Orlando** [4264, 4154]. **Orleans** [4193]. **Orono** [4204]. **ors** [3387]. **orthogonal** [1272]. **Oscillation** [2993]. **Oscillator** [3548, 3661, 3577, 4097, 3859, 4115, 3288, 3530, 3538, 3539, 3886, 2785, 3576, 3333, 3359, 3363, 3520]. **Oscillator-Based** [3548, 4115, 3538, 3539, 3886, 2785, 3520]. **Oscillators** [3707, 4054, 3446, 208]. **Other** [1493, 2981, 175, 594, 595, 117, 1542, 2551, 2640, 263, 989, 751, 4128, 3406]. **Otherwise** [2259]. **Ottawa** [4294]. **outage** [3477]. **Output** [3925, 2790, 3893, 3867, 4057, 3338, 3783, 3644, 3839]. **overhead** [4104]. **overlap** [4042]. **Overview** [3780, 2773, 2448, 2970]. **Oxford** [4261, 4153].

**P** [597, 641, 262, 170, 3006, 3007]. **P-RnaPredict** [3006, 3007]. **P.** [896, 543, 135]. **P1363** [2536]. **PA** [4155]. **PaCAL** [3822]. **Package** [3822, 1645, 650, 3231, 3158, 500, 3561, 3805, 1948, 2733, 3607, 656, 614, 619, 2012, 1198]. **Packing** [3082, 3410, 718, 502, 1181, 1482, 425, 941]. **packings** [431]. **Pad** [3552, 2285, 2232]. **Padé** [1966]. **Page** [2930, 2536]. **Pages** [3769, 993, 2147]. **Pair** [281, 350]. **pair-wise** [350]. **Pairs** [552, 2054, 3766, 1084, 2764, 753, 1822, 2056, 2278, 2357, 141, 2237]. **Pairwise** [973, 747, 2765]. **Palace** [4264]. **Palásti** [718, 502]. **Palo** [4334, 4248]. **Pan** [956, 1118]. **Pannonian** [4157]. **Paper** [196, 236, 31, 3622]. **Papers** [3760, 2545, 4292, 4142, 4206, 1266, 2027, 239, 323, 410, 407, 4294, 4286]. **Papoulis** [390]. **paradigm** [4095]. **Paragon** [2067]. **Parallel** [2589, 673, 2145, 2251, 1905, 1498, 2350, 2351, 2163, 2164, 2442, 3307, 3432, 2354, 1348, 2277, 2062, 2280, 2365, 2452, 2453, 4071, 1434, 3853, 1446, 1299, 1460, 3823, 3228, 3354, 1985, 2092, 2093, 2094, 2400, 2650, 2900, 3709, 3775, 2216, 2486, 3486, 3720, 1779, 1998, 1400, 3724, 3626, 2233, 3983, 4218, 2240, 3509, 2680, 3791, 4239, 3006, 3089, 1690, 3742, 3743, 3744, 3799, 3746, 2439, 1214, 1423, 2167, 3998, 2263, 1924, 1511, 2050, 1428, 1509, 3316, 1430, 1515, 2183, 2364, 1290, 1437, 3753, 3111, 1830, 1443, 4256, 3042, 1368, 2375, 1951, 1129, 4052, 3856, 3941, 3701]. **parallel** [3704, 2646, 3974, 2894, 3609, 1753, 2211, 1978, 1980, 3706, 3616, 1864, 1984, 2479, 2901, 3472, 3869, 1478, 1999, 1670, 2008, 2241, 2328, 2845, 2766, 1594, 2506, 2509, 2249, 3007, 2586, 1800, 2775, 1596, 4228, 4244, 1797]. **parallèle** [1594]. **parallelism** [3799]. **Parallelization** [3558, 1344, 2304, 2896, 2117, 3737]. **Parallelized** [2089, 2658, 1859]. **Parameter** [757, 901, 823, 2707, 3579, 4114, 2234, 1063, 2730, 3943, 3468, 568, 620, 2494]. **Parameterized** [4110, 1868]. **Parameterizing** [3432, 2901]. **Parameters** [2164, 2474, 3362, 716, 856, 3574, 2065, 1836, 2624, 830, 2389, 2100, 2102, 974, 2666, 844, 3728, 3272, 717, 3881]. **Parametric** [3707, 51]. **Parametrical** [3573]. **Paraperm** [3823]. **Paris** [4167]. **Park** [4190]. **parking** [3410]. **parsing** [2167]. **Part** [2176, 4339, 2642, 2675, 2282, 2283, 2481, 3494, 3495, 3496, 3497, 533, 534, 2676]. **Partial** [1523, 4021, 1353, 84, 1254, 3640]. **Partially** [2396]. **Partially-Specified** [2396]. **Particle**

[4112, 3234, 2228, 3621, 3794, 3737, 3298, 3417, 95, 2321]. **particle-in-cell** [3794]. **particular** [2937]. **Partition** [239, 1658]. **Partitioning** [853, 1004, 2949]. **Partitions** [2233]. **parts** [1330, 2362, 2706, 2532, 2472, 2091, 2657]. **PASCAL** [1396, 1333, 1622, 1127, 1324]. **Pass** [2742]. **passage** [582]. **Passau** [4316]. **Passive** [3168, 3996, 3777]. **Password** [1877, 1467]. **past** [3460]. **Patchwork** [1548, 1899, 1899]. **Patchwork-Verwerfung** [1899]. **path** [1915, 3444, 3458, 3361]. **paths** [1916]. **Patience** [2787]. **Pattern** [2048, 4071, 748, 3406, 3209, 3650]. **Pattern-Based** [4071]. **patterned** [4021]. **Patterns** [1520, 553, 4074, 3767, 1758, 934]. **Paved** [3784]. **Payne** [764]. **PC** [1514, 1439, 1560]. **PCB** [3302]. **PCG** [3830]. **PCIe** [3763]. **PCKS** [2344]. **PCs** [2290]. **PDEs** [1829]. **PDF** [3309, 3039]. **Pdfs** [3642]. **Peaks** [798]. **Pearson** [296, 2907, 1578]. **Peccati** [3769]. **Peculiarities** [2648, 2338]. **pedagogical** [1798]. **peer** [3296]. **peer-to-peer** [3296]. **Pennsylvania** [4234, 4235, 4206]. **pentanomials** [2131, 2689]. **Pentium** [3269]. **Percentage** [819, 700, 903]. **percolation** [3229]. **Peres** [4077, 3783]. **Perfect** [2524, 1562, 1563, 1764, 3300, 3421, 1657, 2098, 837, 1585, 1898]. **perfectly** [1141]. **Performance** [1689, 2783, 1810, 3431, 596, 1634, 1636, 3216, 1851, 2205, 4324, 1475, 575, 3162, 2256, 3298, 3171, 548, 3335, 3588, 3345, 4096, 2634, 3607, 3827, 3714, 1138, 2000, 1204, 3153, 2028]. **perilous** [3377]. **Period** [853, 908, 4065, 1626, 3336, 3971, 3703, 2556, 2019, 2771, 2784, 3021, 3097, 3305, 2042, 471, 3103, 1432, 1517, 1725, 2362, 2706, 1522, 769, 2799, 775, 2719, 1363, 2532, 1956, 2381, 2472, 2642, 1983, 2657, 3718, 3069, 707, 2849, 3384, 2776, 233, 1268]. **Periodic** [3016, 181, 750]. **periodo** [471]. **Periods** [346, 3387, 1910, 2189, 709, 1712]. **Permutation** [1156, 4065, 1920, 2623, 4111, 3711, 3864, 3867, 3157, 3182, 2702, 1000, 321, 2084, 1250, 1866, 3480, 1665]. **Permutation-Based** [3867]. **Permutations** [3924, 3418, 1731, 3823, 1575, 407, 434, 435, 2153, 3928, 1521, 1532, 445, 1638, 1743, 1385, 313, 260, 1782, 707, 3630, 166, 177]. **Permuted** [2108, 3383]. **Personal** [2977, 2498, 1697, 1834, 1835, 2069, 2070, 1556]. **Perspective** [2605, 3775, 3827]. **perspectives** [4261]. **PERT** [928]. **Perturbed** [4018]. **Perturbing** [3287]. **PETASYS** [1693]. **Petrov** [2165]. **PGA** [3311]. **PH** [3395, 3693]. **PH-Distributed** [3693]. **Phase** [3707, 874, 161, 3503, 3446, 3447, 3464, 3358, 3395]. **phase-dependent** [3395]. **Phase-Shift** [874]. **Phenomena** [3046]. **phenomenon** [3710]. **Philadelphia** [4234, 4235]. **Philip** [508]. **Philosophy** [4146]. **Phoenix** [4202]. **Phone** [3834]. **Photo** [3845]. **Photodiode** [3385]. **Photon** [2705, 3147, 3385, 3399, 3598, 3458, 3624, 3644, 3401]. **photon-number** [3458]. **photon-number-resolving** [3598, 3624]. **Photonic** [3273]. **Photonic-based** [3273]. **PHP** [3880]. **Phys** [2069, 2195]. **Physical** [4131, 1612, 3994, 3845, 1079, 2630, 3223, 561, 4115, 3243, 2993, 2841, 3147, 3278, 2023, 2136, 3524, 2271, 1730, 2368, 2380, 738, 2829, 1672, 3153, 3392, 2022]. **Physically** [1599, 3928]. **Physics** [2858, 1778, 4291, 1335, 1700, 2260, 2261, 2694, 3420, 2940, 3491, 2684]. **Pi**

[2981, 3058, 2663]. **Picturebook** [2282, 2283]. **Picturing** [1479, 1667]. **piecemeal** [625]. **Piecewise** [3695, 3696, 2645, 3086, 3152]. **Piecewise-Linear** [3695, 3696]. **Pillai** [447]. **Pinsker** [319, 395]. **pipelining** [1706]. **Pitfalls** [2459]. **Pittsburgh** [4155, 4206]. **Pivot** [2618]. **PKI** [3159]. **pLab** [2282, 2283, 1974]. **Place** [2728, 1782]. **placement** [2698]. **Places** [2225, 81]. **Plains** [4184]. **Planar** [1658]. **plane** [502]. **planes** [1630, 312, 452]. **Plans** [272]. **Plasma** [349]. **Platform** [4125]. **platforms** [3701]. **Plausible** [2864]. **playing** [2862]. **Plaza** [4146, 4175]. **PLC** [3643]. **PLFG** [2766]. **plots** [2141, 2430]. **PLP** [3265]. **plus** [1130]. **pocket** [1103]. **PODS** [4212]. **PODS'09** [4310]. **Point** [2712, 4030, 1083, 1744, 2547, 3227, 2387, 1387, 1308, 1592, 2773, 3179, 1808, 3103, 4072, 324, 4008, 2373, 4247, 3599, 2082, 2633, 3767, 2551, 2640, 2894, 605, 1017, 3910, 1255, 1767, 1768, 2909, 3068, 934, 669, 3786, 2239, 1884, 987, 3275, 714]. **Points** [819, 270, 196, 2950, 201, 2731, 205, 700, 3080, 3267, 1146, 1794, 2335, 903, 221, 222, 3042, 1949, 693, 731, 1641, 2209, 1559, 876, 1873, 1876, 2226, 3067, 2909, 4103, 3632, 424, 2580, 849, 1593, 2026, 399, 465, 2144]. **Poisson** [897, 674, 947, 1025, 898, 900, 3884, 1426, 4000, 998, 1429, 1621, 2450, 766, 1842, 3453, 1547, 1640, 1551, 1466, 2211, 521, 522, 1252, 1399, 2574, 531, 1022, 3506, 461, 889, 463]. **Poisson-Truncated** [1551]. **poker** [416]. **Poland** [4244]. **Polar** [1906, 281]. **policies** [2604]. **policy** [3120]. **Poly** [3923]. **Poly-Size** [3923]. **Poly1305** [3855, 3980]. **Polya** [1111]. **polyalphabetic** [797]. **polygonaler** [625]. **Polygons** [858]. **Polylogarithmic** [3901]. **polynomes** [1052]. **Polynomial** [4065, 3207, 1373, 2730, 2888, 1379, 2812, 3358, 3776, 1875, 2755, 2830, 3965, 3327, 1464, 3128, 3471, 1657, 3479, 3480, 3482, 3718, 625, 1486, 3990]. **polynomial-time** [1464]. **polynomially** [3317]. **Polynomials** [3013, 2620, 2541, 3465, 1306, 1874, 1794, 1890, 4025, 1696, 2939, 3182, 3997, 1712, 3036, 1453, 3765, 1045, 1187, 3238, 3481, 1201, 1894, 3647, 398]. **polyominoes** [2153]. **Poor** [758, 128, 3944]. **popular** [2203, 659]. **Population** [2004, 8, 18, 135]. **Populations** [25, 12, 40]. **Portability** [1005]. **Portable** [1905, 3927, 2350, 3193, 3321, 2052, 2791, 4071, 1840, 2202, 482, 1247, 1300, 2975, 1087, 1192, 1781, 1998, 938, 1586, 1058, 1152, 1267, 1596, 1426, 2703, 2788, 2946, 1008, 1363, 2805, 1381, 3123, 1977, 1983, 1999, 1403, 1484, 1674, 3787, 1787, 1884, 1675, 1800]. **Portfolio** [2930]. **Portland** [4260, 4246]. **Posamentier** [3339]. **Positive** [1696, 1117, 2470, 422, 889, 903, 1215, 2891, 1471]. **Possible** [2246, 2113]. **possibly** [2324]. **post** [3254]. **post-processing** [3254]. **Posterior** [3784, 2020]. **Postgraduate** [650, 4152]. **Postprocessing** [3575, 3772, 3198]. **pour** [322, 1380, 2209, 2909, 1594]. **Power** [3587, 3342, 419, 3370, 2924, 1406, 759, 2350, 3303, 3304, 586, 3313, 3438, 1627, 1631, 1727, 1728, 1818, 1933, 1934, 2179, 2180, 2357, 2358, 1352, 1171, 3209, 3459, 3463, 417, 2899, 2566, 2986, 990, 3281, 3282, 3522, 3892]. **power-normal** [3892]. **Power-Up** [3342]. **POWER7** [3770]. **powerful** [3953]. **Powers** [749, 1067, 1338, 2697, 4116]. **pp** [3733]. **Practical**

[1901, 2339, 3930, 2622, 3205, 2649, 3504, 1908, 195, 2380, 1741, 2676]. **Practically** [3436, 2371, 4001]. **Practice** [2597, 2704, 3454, 4245, 2072, 963, 1245, 2132]. **Practice-Oriented** [2704]. **practitioners** [3760]. **Practrand** [4001, 3809, 4040]. **Prague** [4139]. **PRAM** [2167]. **PRAND** [3743, 3799]. **pratiques** [1908]. **PRBS** [559]. **Precautions** [576, 632]. **precision** [4008, 3599, 1017, 2239, 1884, 3679]. **Predefined** [2034]. **Predict** [2790, 1552, 1745]. **Predictability** [3893]. **predictable** [3172]. **Predicting** [2938, 3574, 3757]. **Prediction** [2048, 3006, 2342, 264]. **Preferential** [4048]. **preferred** [555]. **prefix** [2211]. **Preliminary** [2343, 764, 104]. **Prescribed** [2866, 1803, 2455, 2829, 2762]. **Presentations** [395]. **presented** [4142]. **Preserving** [1121, 4118]. **Press** [2147, 3769]. **pretty** [2115]. **Previously** [2556]. **PRG** [3765]. **Price** [170, 3769]. **pricing** [3709, 3775]. **Primality** [3754, 702, 2432]. **Prime** [1334, 2605, 3025, 1295, 3971, 1200, 2003, 3725, 2121, 572, 2434, 2784, 2442, 2166, 3305, 1812, 2870, 1346, 1627, 1818, 919, 2199, 1457, 786, 2400, 4116, 2566, 3067, 1792, 2848, 3511, 3281, 3282, 3522]. **prime-modulus** [786]. **prime-power** [2566]. **Primes** [2171, 945]. **Primitive** [1738, 398, 1052, 1201, 2016, 2689]. **Primitives** [2622, 3205]. **Princeton** [2147, 4336]. **Principle** [3845, 3579]. **Principles** [4212, 180, 820, 1342, 2701, 3102, 859, 2388, 4310, 4245, 2662, 1531, 1545, 1546]. **Printer** [2116]. **prior** [375]. **Priori** [244]. **priority** [696, 697]. **privacy** [4118]. **privacy-preserving** [4118]. **Private** [1655, 2156]. **Prize** [2886, 3986]. **PRNG** [4051, 3962, 3893, 2880, 3703, 3777, 2753, 3988]. **PRNGlib** [2216]. **Proactive** [2043]. **Probabilistic** [1829, 3754, 928, 3382, 1602, 1916, 1339, 2462, 1739, 1754, 2816, 2979, 456, 1569, 628, 577, 993]. **probabilità** [16]. **probabilités** [3]. **Probabilities** [956, 1118, 1581, 3926, 3, 3119, 140]. **Probability** [3957, 1903, 294, 4142, 3925, 2165, 169, 2048, 3201, 82, 305, 560, 1251, 657, 563, 2654, 361, 1139, 1663, 2758, 2662, 2111, 1197, 2230, 528, 262, 207, 4209, 913, 4143, 151, 1343, 1114, 4315, 16, 2188, 382, 1457, 256, 1568, 667, 571, 2684, 4042, 4157, 390, 2653]. **Probable** [1, 975, 2, 2166, 1812, 1457]. **probablistic** [567]. **Probably** [1334]. **Problem** [2162, 3425, 52, 2952, 304, 1469, 389, 3868, 1789, 1613, 2863, 954, 3586, 3341, 964, 3237, 3975, 188, 3990]. **problème** [2863]. **Problems** [197, 593, 105, 1128, 27, 791, 342, 343, 1874, 1664, 4277, 1683, 2940, 195, 1916, 1218, 1229, 774, 223, 203, 1773, 3782, 189, 2914, 708, 426, 166, 1597]. **procédé** [322]. **Procedure** [1109, 1219, 956, 1118, 1004, 4005, 446, 309, 280, 1777, 1608, 1691, 322, 777, 335, 283, 337, 3715]. **Procedures** [2602, 3816, 254, 568, 620, 2668, 1146, 1686, 1699, 585, 320, 2482, 2747, 2982, 3244, 345, 850]. **Proceedings** [4166, 4187, 4212, 4235, 4327, 4334, 4131, 4188, 4169, 4177, 4132, 4201, 4155, 4160, 4174, 4256, 4130, 4196, 4197, 4339, 4324, 4230, 4154, 4269, 4270, 4297, 4219, 4150, 4232, 4233, 4276, 4152, 4185, 4145, 4234, 4283, 4293, 4298, 4181, 4227, 4172, 4193, 4151, 4167, 4168, 4137, 4213, 4236, 4159, 4237, 4261, 4228, 4153, 4183, 4275, 4195, 4157, 4262, 4206, 4263, 4267, 4257, 4264, 4191, 4287, 4250, 4202, 4231, 4251, 4258, 4280, 4147, 4207, 4163, 4146,

4165, 4272, 4225, 4252, 4175, 4244, 4220, 4171, 4176, 4182, 4192, 4203, 4221, 4226, 4253, 4260, 4273, 4278, 4311, 4320, 4240, 4129, 4135, 4199, 4308]. **Proceedings** [4328, 4200, 4148, 4223, 4318, 4333, 4268, 4134, 4215, 4310, 4218, 4288, 4224, 4210, 4239, 4243, 4211, 4246, 4222, 4255, 4316, 4299, 4323, 4296, 4180]. **Process** [4109, 2088, 3379, 1719, 530, 987, 3396, 1605]. **Process-Voltage-Temperature** [3379]. **Processes** [170, 300, 351, 1838, 2726, 692, 2470, 97, 102, 1071, 4315, 274, 198, 1534, 3692, 4139, 2632, 4114, 3977, 361, 1139, 1663, 2758, 228, 62, 1797, 319, 390, 395, 993]. **Processing** [673, 3569, 4218, 4135, 3746, 1214, 4256, 1368, 2298, 1460, 3226, 3714, 3254, 2000, 1670, 2586]. **processor** [3417, 1537, 1538, 3770, 4124, 3395]. **Processors** [2452, 3849, 4300, 3455, 3486, 3501, 3785, 3415, 3963, 1423, 1515, 1437, 1634, 1649, 1478, 3533, 3653]. **Produce** [1123, 4092, 4049]. **Produced** [1421, 3854, 561, 1092, 1093, 1422, 3112, 2305, 1572, 2768]. **Producing** [338, 360, 75, 76, 386, 2999]. **Product** [2628, 3120, 207, 3143, 3267, 903, 1168, 1952, 1251]. **Production** [169, 331, 176]. **Products** [3062, 396, 536, 2063, 3601, 2852]. **Professor** [4261]. **Profile** [3013, 2871, 2802, 2824, 3131, 1764, 1569, 3003, 1898]. **Program** [3547, 3744, 2158, 1226, 3895, 225, 3283, 1031, 2405, 618, 1396, 1142, 942]. **Programmable** [2298, 1844, 2650]. **Programmed** [818, 906, 1705, 3010]. **Programmierung** [895]. **Programming** [3927, 4071, 3050, 2109, 1664, 3874, 4272, 895, 4153, 1229, 2194, 2743, 615, 2241, 3789]. **Programs** [1498, 3424, 3802, 3425, 376, 469, 1034, 4031, 4111, 712, 1145, 1487, 3422, 3761, 927, 2000, 1909]. **progressive** [3988]. **project** [2619, 2930]. **Projections** [3213]. **proliferating** [4075]. **Proof** [2031, 2856, 2514, 721, 406]. **Proofs** [1972, 3711, 3864, 4024, 2862, 2462, 4123, 2118]. **Proper** [2151, 1358, 2255]. **Properties** [583, 855, 2046, 550, 2361, 2366, 2951, 862, 509, 186, 2645, 448, 419, 744, 1893, 2931, 3659, 2442, 1913, 2265, 297, 1820, 2179, 2274, 2279, 2362, 2706, 2183, 727, 2367, 143, 2801, 1368, 919, 779, 2381, 1042, 332, 3225, 1646, 3463, 1752, 1761, 1572, 99, 805, 2915, 3076, 3142, 2849, 1796, 2249]. **Property** [181, 3287, 3546, 1158, 3319, 3939, 1307, 807]. **property-based** [3939]. **proportional** [3120]. **Proposal** [498, 1115, 3239, 1643, 1992]. **Proposals** [1662, 1576]. **Proposed** [1191]. **Propositional** [2856, 2514]. **Propriétés** [805]. **Prospective** [512]. **Protect** [640]. **protection** [2346, 4104]. **Protocol** [2043, 3389, 3390, 3217, 4118, 1104]. **Protocols** [3669, 3909, 3980, 2236, 1414, 1695, 3353]. **Proton** [349]. **Proton-Electron** [349]. **Provable** [3083, 1901]. **Provably** [2339, 3418, 2185, 3148, 1447, 3644]. **Proved** [3801]. **Providence** [4166, 4310]. **Providing** [2028]. **Proving** [2719]. **Ps** [3689]. **PSA** [4146]. **'pseudo** [2609, 1060, 2591, 498, 3411, 1156, 4088, 755, 948, 2344, 3169, 2934, 4029, 267, 2155, 994, 2860, 2782, 2257, 1612, 3664, 906, 1502, 545, 1030, 1106, 1213, 181, 1421, 1702, 2164, 239, 504, 183, 761, 2600, 587, 3430, 2043, 3310, 216, 1713, 217, 3569, 2869, 2945, 3677, 3571, 552, 2275, 4071, 1520, 2185, 3849, 3934, 1122,

1525, 1039, 1828, 410, 2529, 2952, 3035, 772, 773, 3443, 243, 1533, 2622, 3205, 3336, 1443, 354, 355, 381, 3593, 866, 2626, 1449, 1739, 356, 2725, 329, 4034, 155, 3454, 2543, 2966, 2810, 3229, 2645, 2977, 448, 3825, 249, 3610, 1250, 1647].
**Pseudo**
[1386, 451, 77, 1562, 4099, 1192, 2404, 2097, 131, 3362, 2652, 2827, 1567, 2486, 658, 616, 838, 877, 878, 1662, 206, 4100, 931, 3720, 2411, 3621, 362, 392, 1092, 744, 3072, 935, 1053, 2120, 229, 1582, 3261, 3140, 4057, 1784, 1588, 2672, 2673, 572, 192, 2498, 347, 537, 2130, 2919, 2680, 136, 3389, 3390, 575, 1595, 2851, 1679, 2245, 2246, 2772, 2853, 1057, 428, 1150, 1206, 809, 3398, 430, 1058, 1152, 2586, 811, 3651, 1267, 943, 1154, 1325, 1327, 1412, 3161, 1802, 2146, 2033, 1693, 3297, 4028, 3167, 3544, 4106, 3415, 3170, 2598, 3551, 3747, 2937].
**pseudo**
[1157, 2160, 1503, 3422, 3301, 1908, 2037, 678, 2442, 911, 104, 3846, 3427, 722, 3804, 3188, 763, 3311, 1031, 3567, 1427, 3314, 3568, 297, 3315, 3931, 1346, 440, 551, 588, 3750, 3319, 4001, 408, 113, 218, 1433, 1228, 1288, 1351, 322, 2951, 4003, 153, 1290, 242, 2064, 184, 769, 771, 1173, 1736, 1294, 1362, 479, 3333, 3936, 3588, 919, 2805, 1952, 1240, 3818, 3209, 224, 2537, 3345, 3456, 2302, 3219, 3347, 1011, 1642, 2967, 248, 1015, 1185, 3226, 3349, 2472, 2974, 2646, 1857, 3463, 3466, 1648, 3358, 3240, 3775, 3827, 2402, 284, 3617, 2825, 2906, 457, 797].
**pseudo** [3866, 3063, 1765, 3473, 2317, 699, 801, 802, 803, 1195, 3478, 1576, 420, 2322, 493, 258, 1090, 3487, 3256, 3257, 666, 804, 667, 3949, 3490, 3724, 976, 3982, 569, 3074, 883, 3877, 711, 625, 3627, 3628, 2671, 4082, 2327, 1204, 346, 573, 4084, 3380, 2243, 2422, 2583, 2766, 165, 2425, 193, 1594, 3516, 3277, 2508, 3879, 3518, 1104, 3284, 3880, 3005, 3088, 1489, 3649, 3734, 3289, 3528, 2929, 3652, 3405, 3920, 3533, 3534, 440, 473, 643, 363, 631]. **pseudo-aléatoire** [1908, 322]. **pseudo-aléatoires** [763, 284, 1594]. **Pseudo-Casuali** [994]. **pseudo-disturbance** [1157]. **Pseudo-Inversen** [1039]. **Pseudo-Random** [498, 948, 2344, 2934, 267, 2155, 2257, 1612, 906, 545, 1030, 1106, 1213, 181, 1421, 239, 183, 761, 587, 2043, 3310, 216, 2869, 2945, 3677, 552, 4071, 1520, 3849, 1525, 1828, 410, 2952, 3035, 772, 773, 3443, 243, 3336, 354, 381, 3593, 866, 356, 329, 2543, 2966, 2645, 2977, 3825, 1386, 4099, 1192, 2097, 131, 2827, 2486, 658, 616, 877, 206, 4100, 931, 3720, 362, 392, 1092, 744, 1053, 2120, 229, 4057, 1588, 572, 2498, 347, 537, 2680, 136, 575, 1595, 1679, 2245, 2246, 428, 1150, 1206, 809, 3398, 430, 1058, 1152, 3651, 1267, 943, 2591, 755, 2782].
**Pseudo-random**
[3664, 1502, 504, 217, 3569, 2275, 2185, 1122, 2529, 1533, 1443, 2626, 1449, 1739, 4034, 1250, 1647, 77, 1562, 2404, 2652, 838, 878, 3621, 3072, 935, 3140, 1784, 2672, 2673, 192, 2130, 2919, 2772, 2853, 2586, 811, 1154, 1325, 1327, 1412, 3161, 1802, 2146, 2033, 1693, 3297, 4028, 3167, 3544, 4106, 3415, 2598, 3747, 2937, 2160, 1503, 3422, 2037, 678, 911, 104, 3846, 3427, 722, 3804, 3188, 3567, 1427, 3314, 3568, 297, 3315, 3931, 1346, 440, 551, 588, 3750, 3319, 4001, 408, 113, 218, 1351, 4003, 153, 1290, 242, 184, 769, 771, 1173, 1294, 1362].
**pseudo-random** [479, 3588, 919, 2805, 1952, 1240, 3818, 224, 2537, 3345, 3456, 2302, 3219, 3347, 1011, 1642, 2967, 248, 1015, 1185, 2472, 2974, 2646,

1857, 3463, 3466, 3358, 3240, 3775, 3827, 2402, 284, 457, 797, 3866, 3063, 1765, 3473, 2317, 699, 801, 802, 803, 1195, 420, 2322, 493, 258, 3487, 666, 804, 667, 3949, 3724, 3074, 883, 3877, 3627, 3628, 2671, 4082, 1204, 346, 573, 4084, 3380, 2243, 2422, 2583, 2766, 165, 193, 3277, 2508, 1104, 3284, 3005, 3088, 1489, 3649, 3734, 3289, 3528, 3652, 3533, 3534, 631, 363].
**Pseudo-random-number** [3229, 2906, 2327]. **Pseudo-Randomness** [2622, 3205, 2810, 448, 1702, 3610, 1567, 3257]. **pseudo-uniform** [1031]. **Pseudo-Zufallszafflen** [1060]. **Pseudo-Zufallszahlen** [440, 473, 643]. **pseudoentropy** [3731]. **pseudoinverses** [1039]. **pseudonoise** [2963]. **Pseudoprime** [3754]. **Pseudorandom** [2437, 2855, 2514, 2856, 3013, 3412, 1905, 3658, 3739, 3923, 853, 2254, 3545, 2343, 3416, 2036, 2157, 3418, 3843, 3554, 3961, 4045, 2939, 3668, 3669, 3424, 3802, 909, 910, 822, 2039, 3185, 1279, 2041, 1161, 1220, 1340, 2606, 2944, 3999, 550, 2702, 2704, 2525, 2174, 3681, 4110, 1723, 1227, 1624, 1625, 1626, 1629, 1726, 1930, 2054, 2057, 2060, 2177, 2273, 2277, 3027, 3199, 2181, 2361, 2062, 2280, 2365, 3031, 767, 2711, 1072, 825, 2459, 864, 2715, 1358, 1439, 1528, 3583, 1530, 1831, 2797, 444, 3584, 3685, 3755, 2465]. **Pseudorandom** [2876, 4093, 3586, 4031, 2620, 2466, 3758, 1834, 1835, 1944, 2372, 2071, 2190, 4094, 3114, 1127, 3690, 1951, 4111, 3762, 1180, 3216, 1848, 2729, 2383, 870, 4051, 1458, 1741, 3601, 2631, 333, 3462, 4127, 3698, 1553, 1746, 1852, 3050, 1749, 3355, 652, 3902, 3608, 3465, 2395, 1557, 1979, 873, 3906, 3907, 521, 522, 654, 655, 874, 3708, 2092, 2093, 2094, 2745, 3059, 453, 2561, 2562, 2902, 1653, 3471, 3776, 4078, 608, 1303, 3711, 3863, 3864, 2751, 3713, 1306, 2222, 798, 799, 3716, 1571, 1876, 1990, 2105, 2106, 2224, 2487, 2658, 2754, 2985, 1573, 1772, 3868, 3481]. **Pseudorandom** [3718, 932, 3138, 2759, 3721, 1141, 1998, 421, 1481, 2118, 1400, 2667, 3498, 1671, 3262, 886, 887, 1102, 888, 2009, 2496, 713, 3083, 2505, 2677, 2423, 1318, 1405, 1591, 1677, 1893, 2135, 3156, 3283, 2139, 2512, 2688, 1151, 496, 3006, 1897, 3291, 3919, 3881, 1687, 913, 2778, 1060, 1408, 2690, 1901, 1607, 3992, 1271, 1413, 1495, 2032, 500, 2341, 2150, 2931, 1496, 1414, 1695, 3741, 3885, 3016, 3546, 3659, 3742, 3800, 994, 2035, 1613, 2938, 3996, 1064, 1065, 1706, 3561, 403, 1809, 3889, 4066, 2699, 3748, 763, 2868, 1924, 471, 2046, 2356, 1714, 1715, 472, 4067, 473]. **pseudorandom** [3318, 2173, 474, 1115, 3680, 4091, 2272, 2526, 914, 1432, 1517, 1627, 1628, 1630, 1631, 1724, 1725, 1727, 1728, 1729, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 2055, 2056, 2058, 2059, 2178, 2179, 2180, 2274, 2276, 2278, 2357, 2358, 2359, 1350, 1352, 2279, 2362, 2706, 1939, 2061, 2182, 2183, 2281, 2363, 590, 591, 322, 3811, 1827, 2528, 1291, 1235, 1292, 1356, 2367, 2368, 863, 3935, 1360]. **pseudorandom** [3813, 2956, 557, 380, 2875, 775, 185, 643, 4006, 2801, 2532, 2802, 3204, 3757, 3850, 3449, 4074, 3338, 3589, 3590, 3815, 2072, 2074, 2291, 2294, 2295, 2374, 480, 2624, 2297, 868, 1445, 1956, 383, 2538, 3044, 416, 828, 1539, 1957, 2195, 357, 2196, 1298, 2964, 1846, 1374, 2200, 2201, 2544, 1456, 4012, 1246, 3225, 1459, 2471, 4095, 601, 602, 1378, 2969, 2084, 3353, 2312, 2210, 1188, 1302, 2642, 1556, 485, 872, 3607, 3972, 3237, 3826, 3903, 4016, 4037, 3238, 1385,

1468, 1755, 2089, 1864, 1984, 1985, 2479, 2559, 2560, 2401, 2403, 2822, 3060, 3129, 1866, 3908, 2824]. **pseudorandom** [3131, 4038, 4116, 1564, 3714, 3364, 1018, 3910, 2223, 659, 879, 1049, 1138, 1256, 1257, 1309, 1391, 1392, 1394, 1476, 1570, 1572, 1769, 1770, 1873, 1989, 2104, 2565, 2566, 2567, 2655, 2656, 2657, 2756, 2986, 3252, 1773, 3479, 3480, 3482, 619, 3782, 3947, 3869, 1665, 527, 2112, 840, 974, 460, 1999, 1142, 1668, 1483, 1097, 1579, 1052, 882, 4102, 3726, 2575, 3142, 709, 2418, 3502, 2237, 2995, 1404, 3505, 3630, 4103, 2996, 627, 989, 3837, 4059, 4083, 4041, 1791, 3383, 1319, 2018, 3003, 1795, 2683, 942, 3731, 3280, 3281]. **pseudorandom** [3522, 2134, 495, 4042, 714, 2247, 1601, 2024, 2140, 2141, 2249, 2430, 2511, 2025, 3007, 3157, 2776, 233, 813, 4087, 1606, 2029, 3570, 3397]. **pseudorandom-number** [2690]. **Pseudorandomness** [3012, 2253, 3425, 3670, 4069, 727, 2716, 2463, 2531, 3970, 3694, 4009, 2539, 2627, 2724, 2629, 2639, 2212, 3467, 2564, 1659, 2685, 4024, 2594, 2156, 2462, 4123, 3976, 3155, 2774, 2147]. **pseudozufallsvektoren** [1362]. **Pseudozufallszahlen** [2173]. **Pseudozufallszahlenfolgen** [625]. **psevdosluchainykh** [352]. **PSI** [1438]. **PSO** [4112]. **PSW** [3754]. **PUB** [1877]. **Public** [2349, 918, 2536, 1991, 2573, 881, 3341, 2471, 3942]. **Public-Key** [918, 2536, 2573]. **Publications** [262, 395]. **Publicly** [3889, 3190]. **Published** [3769]. **PUF** [4090, 4101, 4081, 3951, 3984]. **PUF-TRNG** [4101]. **PUFs** [4022]. **Pulse** [3577, 1844, 680, 3578]. **Pulse-Excited** [3577]. **Pulse/Data** [1844]. **Pulses** [521, 522, 3401]. **punched** [36]. **punctured** [3866]. **Pure** [3944]. **Purpose** [1091]. **Purposes** [4043, 2976]. **PVT** [3507]. **PVT-variation** [3507]. **pW** [3434]. **pyramids** [1473]. **Python** [3822, 3704, 2398, 2399, 4337].

**Q.R.N.G.** [3541]. **QRNG** [4118, 4108]. **Qs** [3689]. **QTPM** [4125]. **Quadratic** [2054, 2058, 2278, 662, 2109, 1664, 846, 1215, 1628, 1729, 1933, 2055, 2359, 1289, 2279, 1076, 1133, 977]. **Quadrature** [921, 790, 736, 1048, 397, 2533]. **Quality** [2158, 3566, 4110, 1841, 4033, 2725, 3854, 2092, 1100, 3151, 3276, 3006, 3921, 3298, 3417, 1924, 2608, 4007, 1953, 1957, 2195, 4013, 3226, 3349, 1977, 3613, 1984, 610, 2494, 2495, 3383, 2506, 2584, 3007, 3010]. **quanta** [1225]. **Quantendynamik** [11]. **Quantifiers** [3315]. **Quantis** [3730]. **Quantitative** [3169, 743, 4313, 3827]. **quantity** [227]. **Quantum** [3535, 3536, 3654, 2858, 3540, 3560, 3181, 3810, 3442, 3937, 4032, 1637, 3218, 3458, 3699, 3772, 3707, 3909, 4100, 2002, 3624, 3834, 532, 2674, 3146, 3635, 3154, 3401, 4125, 4062, 4113, 3409, 3655, 3426, 3749, 378, 3198, 3752, 3935, 3450, 3452, 2540, 3598, 3217, 11, 4124, 3712, 3778, 3474, 3491, 4102, 3504, 2844, 2581, 3381, 3638, 3388, 4060, 3392, 3732, 3644, 3087, 3399]. **Quantum-Mechanical** [532]. **Quantum-Safe** [4100]. **Quantumlike** [708]. **quark** [4241]. **'quasi** [2609, 908, 586, 3439, 2454, 116, 4112, 4301, 4309, 2817, 2101, 877, 1771, 4251, 4290, 1480, 2231, 1259, 1586, 1886, 1589, 3836, 2011, 2424, 315, 2925, 1322,

466, 1611, 2258, 907, 4314, 3968, 4275, 1363, 221, 222, 324, 1836, 2373, 4247, 2533, 2298, 2299, 2633, 2734, 3460, 2640, 1564, 3979, 4231, 4258, 4280, 2909, 3786, 1674, 2008, 3521, 1685, 497, 1268, 2890, 3227, 99]. **Quasi-** [1480]. **Quasi-Convergent** [315]. **Quasi-Monte** [4301, 4309, 4251, 4290, 1886, 3439, 2454, 2101, 877, 1771, 2231, 1589, 3836, 2424, 2925, 466, 4314, 4275, 4231, 4258, 4280, 907, 1836, 2533, 2734, 3460, 2640, 3979, 2909, 497, 2890, 3227]. **Quasi-Monte-Carlo** [99]. **Quasi-Random** [908, 4112, 1259, 2011, 1322, 586, 116, 1586, 1611, 2258, 3968, 1363, 221, 222, 324, 2373, 4247, 2299, 2633, 1564, 3786, 1674, 2008, 3521, 1685, 1268]. **quasi-white** [2298]. **quasicrystals** [2719]. **Quasigroup** [3130]. **Quasigroups** [3583]. **Quasirandom** [2592, 1336, 2163, 3562, 1233, 2226, 2912, 1788, 3307, 2809, 1384, 1873, 1876, 1887, 2126, 577]. **Quaternion** [3519]. **quatrième** [4134]. **Quebec** [4221, 4273]. **Query** [451]. **Quest** [1359, 3542]. **questions** [85]. **Queue** [996, 1971, 1972, 1028, 2794, 969, 3395]. **Queueing** [1415, 1253]. **Queuing** [1498, 623, 806]. **Quick** [2052]. **QuickCheck** [3977]. **Quickly** [1942]. **Quicksort** [2524]. **Quinary** [931]. **Quincunx** [3489]. **Quintessential** [3489]. **quintic** [3108]. **quotient** [1251]. **quotients** [3680, 1254]. **QX** [4113].

**R** [2160, 4044, 3805, 2869, 2945, 3231, 3356]. **R16** [810]. **R18** [773]. **R24** [866]. **R52** [1118]. **R53** [1119]. **R57** [1178]. **R58** [1192]. **Rabbit** [3092, 2783]. **Rabin** [1330, 3754]. **Racah** [426]. **Rackoff** [1866]. **Radial** [349]. **Radiation** [339, 11]. **Radical** [324]. **Radical-inverse** [324]. **radio** [499, 483]. **radioactive** [2926]. **Radisson** [4175]. **Radix** [2196]. **Radix-** [2196]. **RAGE** [3139]. **RAGuard** [4026]. **rake** [3340]. **Raleigh** [4211]. **Ralley** [1089]. **Ramage** [2922]. **Raman** [3560, 3810]. **RAMs** [3335]. **Ramsey** [2426]. **RAN1** [2255, 2341]. **Rand** [1311, 71, 89, 3285, 1377, 1790, 2012]. **RandNLA** [3894]. **Random** [3535, 3536, 3654, 1407, 1688, 3410, 1269, 1328, 498, 815, 1155, 1411, 2339, 1156, 3537, 580, 400, 293, 4088, 2145, 2251, 3795, 1493, 1692, 1211, 103, 108, 109, 110, 111, 123, 124, 125, 126, 896, 993, 2515, 2858, 3540, 3796, 3797, 3739, 3993, 4044, 543, 756, 757, 818, 898, 899, 900, 901, 948, 3164, 3884, 1332, 3924, 2595, 2693, 12, 3168, 2151, 2344, 3169, 2781, 2934, 2597, 3017, 3925, 3926, 295, 267, 350, 2155, 3416, 3417, 4126, 3548, 2860, 3094, 3549, 3661, 758, 1334, 3550, 402, 501, 583, 1500, 436, 2257, 2438, 180, 820, 951]. **Random** [1612, 1699, 2158, 2259, 2348, 2440, 2159, 1501, 1157, 906, 1418, 545, 3845, 2349, 3801, 1030, 1106, 1213, 3556, 181, 237, 3423, 1421, 3558, 2350, 2695, 2351, 2784, 2865, 3020, 3178, 908, 319, 1423, 1109, 2866, 3559, 2164, 2165, 1807, 3180, 1505, 3560, 239, 240, 503, 1424, 1911, 2940, 1708, 1709, 2262, 1506, 855, 183, 3670, 761, 404, 762, 3563, 1217, 587, 3428, 4089, 2444, 2601, 3186, 3306, 3430, 3672, 4065, 4107, 2353, 3431, 3565, 3432, 3673, 377, 2602, 3674, 320, 2043, 2445, 1281, 1219, 1615, 2263, 2354, 2446, 3675, 3310, 1282, 3189, 1920, 241, 216, 405, 470]. **Random** [3101, 549, 2787, 1284, 1342, 2266, 2267, 1713, 2047, 953, 1510, 1926, 1221, 1508, 2049, 2869, 2945, 1345, 1716, 1927, 2523, 3195, 3677, 3848,

3967, 4046, 4121, 3433, 1112, 1222, 1223, 1429, 1620, 1621, 1720, 1814, 2170, 2270, 2789, 3024, 3317, 3807, 4047, 4109, 1285, 2790, 552, 637, 30, 2171, 271, 2172, 2947, 4068, 3104, 3105, 3106, 3196, 3321, 3573, 724, 1070, 1163, 1347, 2051, 2705, 1623, 2449, 1348, 2052, 2175, 2176, 1515, 1226, 1431, 1349, 1723, 2450, 2360, 3810, 2451, 2452, 2793, 3575, 3577, 4071, 3201, 1520, 2366, 3028, 4048, 1166, 1117, 1118, 1119, 2709]. **Random** [3029, 3202, 3030, 2710, 298, 3684, 1037, 1120, 1523, 1435, 379, 3579, 3849, 2615, 441, 4004, 300, 351, 726, 555, 1123, 861, 1525, 507, 1437, 1526, 3441, 3442, 49, 1940, 1124, 275, 1828, 2714, 597, 323, 410, 865, 2952, 1527, 2370, 2795, 3330, 303, 827, 1357, 3035, 4092, 3582, 770, 1735, 772, 773, 1172, 1237, 1531, 3443, 2798, 641, 686, 4005, 4030, 4072, 2288, 200, 243, 244, 144, 687, 446, 3585, 3756, 1125, 1442, 3203, 3445, 3446, 3334, 644, 414, 509, 2371, 2621, 3038, 1295, 3336, 65, 66, 74, 3688, 325, 354, 355, 3759, 558, 688, 3039, 381]. **Random** [3113, 3206, 3852, 1367, 3591, 598, 917, 778, 2293, 4247, 2296, 1738, 2623, 1444, 2077, 245, 1838, 1949, 1950, 3593, 3853, 3761, 866, 4049, 2379, 3342, 3208, 3043, 3450, 1840, 1841, 1954, 2882, 3693, 3451, 3210, 3819, 4075, 279, 327, 4032, 599, 202, 1079, 2808, 154, 1538, 1636, 1370, 356, 4033, 2725, 329, 330, 384, 2726, 2727, 2883, 3854, 155, 2197, 2728, 3454, 2468, 118, 2543, 1082, 1372, 3695, 3696, 517, 4112, 1544, 1639, 2381, 1964, 3220, 3820, 1083, 2965, 1455, 1545, 869, 1546, 1640, 2202, 2966, 1849, 3766, 3222, 2630, 780, 829, 871, 1549, 733, 923, 1375]. **Random** [1742, 3600, 2469, 225, 518, 648, 1744, 1461, 1550, 3822, 2303, 1551, 561, 649, 1013, 1130, 482, 3048, 1247, 1300, 1554, 1645, 1748, 2208, 2307, 2311, 2388, 2390, 2391, 2392, 2394, 2474, 2475, 2547, 2635, 2636, 2637, 2638, 2735, 2736, 2889, 2890, 3052, 3054, 3124, 3126, 3227, 3351, 3603, 3604, 3700, 3824, 3856, 3941, 4035, 4053, 3699, 831, 1016, 3823, 3899, 3350, 1853, 1084, 1747, 650, 925, 1855, 3228, 3354, 2086, 1186, 3230, 4014, 3232, 1750, 1751, 2737, 3357, 2645, 3234, 3235, 3705, 2977, 3974, 3825, 249, 2648, 3771, 2815, 385, 4115, 695, 2396, 2484, 3772, 2817, 309, 359, 1558]. **Random** [1386, 2088, 3905, 2397, 3706, 3707, 2214, 3615, 97, 254, 280, 281, 282, 312, 338, 341, 451, 452, 524, 562, 696, 697, 792, 793, 972, 1085, 1086, 1189, 1191, 1470, 1651, 1860, 1861, 1862, 1863, 2090, 2091, 2478, 2556, 2819, 2898, 387, 607, 3710, 2216, 3243, 2218, 1654, 2746, 2749, 4099, 1655, 1472, 1192, 1475, 1048, 1563, 2097, 795, 2220, 390, 2098, 2750, 835, 1867, 563, 1137, 1304, 3618, 3828, 2099, 1193, 1305, 1389, 3133, 2406, 131, 418, 187, 458, 1089, 4079, 3248, 526, 391, 3362, 2827, 2569, 2659, 2757, 3717, 3911, 3134, 611]. **Random** [740, 875, 2486, 419, 2318, 3475, 3476, 658, 2653, 2654, 1871, 2103, 3251, 616, 877, 1771, 1875, 3945, 1774, 2320, 973, 2228, 3367, 344, 1575, 662, 1662, 3255, 206, 701, 4100, 931, 2570, 2910, 3484, 1397, 3485, 3720, 2411, 2110, 839, 1, 4054, 1197, 1478, 1777, 3139, 1994, 1091, 1666, 2488, 975, 2230, 3371, 2835, 1996, 2115, 1198, 362, 392, 459, 1997, 1092, 744, 366, 528, 1480, 1781, 4056, 4019, 3491, 3623, 3722, 148, 393, 2665, 704, 529, 3872, 3913, 622, 706, 2002, 2912, 530, 842, 3373, 1782, 55, 57, 2838, 262, 2004, 1053, 3494, 3495, 3496, 3497]. **Random** [1098, 369, 2120, 229, 3259, 1581, 936, 1020, 806, 1582, 2667, 3498,

3261, 4057, 1881, 2492, 3784, 3499, 3500, 3727, 2993, 2121, 3983, 3834, 1259, 3375, 3376, 1583, 710, 1100, 1202, 531, 370, 287, 2493, 2669, 2841, 984, 985, 1022, 1054, 1101, 532, 2917, 3264, 748, 626, 938, 3079, 207, 422, 423, 1587, 3143, 1203, 372, 749, 2419, 1588, 2125, 3506, 3081, 988, 2240, 535, 572, 2997, 463, 1887, 2498, 629, 425, 2501, 2503, 630, 890, 1262, 2011, 149, 395, 396, 536, 3379, 3507, 891, 1316, 208, 347, 537, 3269, 427, 2331, 538, 3147]. **Random** [2582, 3637, 631, 3148, 3951, 3984, 2678, 848, 892, 893, 990, 2332, 2333, 2422, 2680, 3270, 3271, 2921, 136, 374, 3385, 3002, 1485, 1486, 2019, 3273, 3386, 1147, 3151, 3274, 3515, 3878, 1593, 9, 107, 210, 3276, 3517, 168, 3389, 3390, 2923, 575, 670, 1056, 1595, 2426, 2851, 315, 3154, 1678, 3391, 3278, 3279, 1679, 2245, 2246, 3393, 1057, 3519, 1103, 428, 2135, 2854, 1150, 1206, 1322, 3642, 539, 540, 1598, 2585, 1207, 3396, 1681, 851, 716, 809, 1682, 944, 2248, 3398, 1323, 2510, 3400, 3648, 429, 430, 894, 1058, 1152, 1324, 1799, 3524, 3287, 753]. **Random** [812, 70, 3288, 3402, 2434, 1265, 1801, 1604, 2336, 266, 946, 2689, 431, 3792, 3403, 3527, 3651, 3735, 3404, 1490, 1686, 3293, 3529, 852, 3407, 1267, 4062, 3408, 2588, 2436, 3892, 407, 3435, 943, 3409, 3794, 3991, 2589, 432, 1154, 1209, 1325, 1326, 1327, 1491, 3737, 2590, 2591, 3883, 633, 634, 1410, 316, 1412, 816, 718, 3411, 4105, 1270, 3956, 3161, 3162, 1902, 1492, 1331, 1690, 3163, 817, 3538, 3539, 1608, 1691, 3840, 755, 1272, 1802, 2146, 499, 3738, 2033, 2148, 3958, 3658, 1693, 1497, 902, 1027, 1694, 3296, 3297, 434, 435, 4028, 2342, 903, 904, 3167]. **random** [3544, 1906, 1696, 2255, 1333, 2932, 2345, 3798, 3842, 4106, 4029, 3547, 3743, 3744, 3799, 1273, 1907, 2153, 1061, 1062, 3093, 3660, 3415, 150, 3298, 582, 3170, 2598, 2599, 3886, 1499, 1610, 1697, 467, 676, 2782, 3551, 3171, 318, 2935, 2936, 3746, 3747, 1698, 3172, 1417, 2937, 1611, 2258, 2439, 3664, 3665, 3928, 3960, 854, 1502, 719, 584, 2160, 3844, 1503, 2863, 3299, 3300, 3421, 1419, 3422, 502, 2161, 3176, 3177, 3301, 3302, 1158, 759, 235, 3557, 821, 194, 1908, 1214, 2037, 182, 4119, 1504, 238, 678, 1703, 2696, 3021, 3097, 1705, 1108, 585, 71, 89, 952]. **random** [1215, 3098, 3803, 2442, 3179, 2785, 635, 911, 1707, 104, 3303, 3846, 195, 1216, 504, 586, 3929, 2600, 1278, 1614, 1914, 3427, 1425, 722, 547, 679, 1068, 3184, 3305, 3564, 3804, 3805, 3099, 1917, 1918, 3187, 1280, 3188, 37, 4120, 3998, 3847, 214, 215, 3566, 1919, 2168, 548, 680, 3311, 681, 1711, 1283, 1617, 2044, 2264, 3190, 2447, 2045, 2169, 2265, 2355, 2521, 3023, 1031, 406, 3806, 3312, 3313, 3567, 1341, 1426, 1507, 1427, 3314, 3568, 1343, 217, 297, 1344, 1511, 1512, 1813, 3315, 3434, 997, 1428, 1509, 1032, 3569, 1618, 1619, 1717, 1718, 2703, 2788, 2870, 3749]. **random** [3931, 1346, 3571, 998, 999, 1033, 1069, 1111, 1113, 1114, 1224, 1719, 1815, 1928, 636, 1000, 440, 551, 588, 684, 43, 3750, 3319, 1622, 3103, 1514, 3320, 3436, 4001, 408, 3751, 1002, 1817, 113, 3438, 3107, 1430, 2791, 378, 2271, 1035, 3198, 3108, 218, 3322, 685, 1433, 2275, 1228, 1288, 1351, 3574, 589, 2949, 2792, 2453, 2607, 2608, 1071, 3576, 3968, 3200, 2872, 1434, 2951, 4003, 2455, 153, 1290, 2873, 725, 1167, 2184, 2456, 2457, 2458, 2611, 1732, 3578, 141, 1168, 1522, 2185, 2613, 1826, 1230, 1231, 1353, 242, 2064, 1232, 3934, 48, 60].

**random** [91, 92, 594, 595, 273, 184, 274, 1122, 768, 1234, 728, 3812, 769, 1074, 1355, 1039, 3032, 3753, 826, 2460, 2529, 1005, 2616, 3935, 116, 142, 2717, 771, 199, 219, 2464, 174, 477, 915, 960, 3037, 1173, 413, 2799, 3444, 2800, 1736, 1532, 1832, 445, 1293, 774, 776, 1008, 478, 1238, 1294, 1362, 83, 93, 479, 777, 2619, 3332, 3333, 1363, 3447, 3895, 2067, 2189, 3448, 3335, 1533, 3687, 221, 222, 324, 1443, 75, 1126, 2069, 2070, 3936, 3588, 689, 4007, 1945, 3115, 3340, 961, 3592, 2373, 2376, 1076, 1948, 2075, 3937, 382, 1534, 919]. **random** [2805, 2961, 3760, 779, 305, 690, 1952, 1078, 2963, 1535, 1839, 1842, 1953, 2535, 2807, 3817, 1446, 67, 76, 3692, 1240, 3818, 3209, 2626, 3344, 4050, 1241, 1635, 3595, 224, 3596, 1009, 3764, 1448, 1449, 1739, 2537, 3211, 1242, 2467, 1740, 1537, 2380, 3452, 2299, 2513, 1080, 2540, 4034, 3598, 1958, 3453, 1181, 331, 964, 3214, 3345, 3119, 1297, 84, 1182, 21, 1243, 95, 1128, 2198, 1452, 1453, 2964, 3456, 3346, 1454, 2199, 2300, 2301, 2382, 3599, 1010, 1963, 1965, 1042, 2302, 3217, 3218, 3219, 3347, 3221, 1011, 732, 26, 31, 32, 1457, 2885, 4011, 4052, 781, 332, 922]. **random** [1012, 1245, 2886, 481, 2384, 358, 783, 1641, 307, 2386, 4013, 1642, 1460, 2967, 3821, 2471, 4139, 924, 1014, 1043, 248, 3938, 2730, 3121, 2968, 3049, 3122, 785, 1131, 830, 4096, 3458, 1381, 1646, 1854, 1973, 2204, 2209, 2306, 2308, 2309, 2310, 2389, 2393, 2633, 2634, 2733, 2887, 2970, 2971, 3123, 3125, 3768, 3940, 3348, 1015, 4076, 1185, 3459, 1132, 3226, 3349, 2472, 1968, 1969, 786, 483, 2891, 2893, 3056, 3229, 1974, 3857, 3701, 2641, 2552, 651, 2644, 2813, 3356, 3605, 2974, 3606, 3704, 4114, 2646, 3770, 1466, 2978, 4077, 1857, 520, 3463, 3128, 3464, 3609, 3612, 1753, 3858, 3904, 2816, 2979]. **random** [1249, 3466, 1250, 1647, 2213, 1977, 158, 3468, 335, 603, 18, 2740, 1648, 1649, 1756, 1859, 1980, 653, 1251, 3614, 3773, 3861, 3862, 251, 2554, 3358, 3359, 417, 3708, 226, 252, 253, 255, 283, 311, 337, 386, 449, 450, 487, 523, 656, 1134, 1190, 1559, 1560, 1561, 1650, 1757, 1981, 1983, 2315, 2399, 2558, 2741, 2820, 3058, 3469, 388, 1471, 2743, 3240, 3774, 4017, 3616, 3241, 3709, 3775, 3827, 1865, 2402, 2095, 2096, 2480, 77, 1562, 1760, 3245, 2404, 284, 698, 737, 1017, 3617, 2825, 2906, 1762, 160, 1047, 130, 490, 1657, 2219]. **random** [796, 456, 457, 834, 2405, 3132, 3712, 3778, 797, 1564, 3361, 610, 738, 1088, 3472, 2651, 926, 2100, 927, 61, 313, 3866, 836, 3063, 3781, 2485, 1765, 3473, 837, 2652, 28, 3363, 612, 3474, 2317, 3064, 3715, 614, 1307, 1766, 1872, 2223, 2829, 564, 565, 699, 801, 802, 803, 838, 878, 1195, 1569, 1661, 929, 930, 3477, 3254, 618, 3830, 2321, 3368, 3478, 2908, 663, 1576, 880, 3783, 420, 2322, 227, 3136, 2987, 3483, 1396, 2229, 361, 1139, 1663, 2758, 3370, 2410, 1578, 492, 1477, 1140, 162, 493, 258, 1090, 45, 2662, 1775, 3487, 1399]. **random** [1050, 3256, 3981, 2413, 2571, 2489, 2113, 567, 3621, 1312, 363, 365, 2324, 3488, 666, 804, 3070, 667, 703, 345, 3949, 1141, 228, 2664, 621, 2572, 3490, 1880, 2000, 2001, 260, 623, 368, 1199, 843, 624, 3624, 188, 2414, 3724, 2415, 1482, 976, 977, 189, 3374, 3982, 3072, 1096, 569, 935, 1402, 844, 3873, 46, 3074, 805, 2491, 134, 3140, 2913, 1670, 937, 979, 1201, 2574, 883, 1099, 707, 3626, 1314, 980, 3876, 3914, 3915, 3877, 3077, 669, 1021, 747, 711, 625, 2123, 1784, 533, 534, 570, 1585, 712, 1145, 2994, 3786, 135, 1883, 3728, 191, 494, 371]. **random** [3627, 3628, 1403, 1484, 1586, 1674, 1786, 2124, 2238, 2239, 2918, 3787, 2842,

2670, 2763, 2671, 4082, 1787, 1884, 2327, 2495, 1055, 3504, 847, 1885, 1260, 1261, 461, 2672, 2673, 2008, 3950, 263, 289, 462, 3835, 2241, 2328, 1204, 192, 346, 2497, 2843, 2329, 2674, 2844, 3633, 2845, 1590, 2012, 2504, 2580, 2581, 79, 2846, 3146, 3635, 2675, 2676, 573, 3636, 2130, 2765, 2847, 2919, 4084, 3380, 3381, 3638, 2920, 3985, 2243, 2583, 2766, 941, 2681, 2767, 2769, 2849, 2999, 3000, 3001, 3084, 3085, 3149, 3510, 3511, 3512, 3639, 3640, 3272, 3513, 849, 165, 3514, 1675, 1891, 2132]. **random** [1205, 3086, 3150, 3152, 3790, 3791, 3838, 2425, 193, 1594, 3516, 3388, 2506, 2584, 167, 1892, 3277, 4060, 2507, 2508, 1320, 991, 3153, 2852, 3987, 3392, 4061, 2772, 2853, 3879, 3518, 850, 3520, 3521, 2686, 2022, 2023, 2509, 1104, 3732, 3643, 36, 4042, 3988, 576, 632, 672, 1680, 3644, 715, 2138, 2926, 232, 1599, 177, 1600, 1894, 3087, 3284, 3645, 3880, 1798, 2687, 3399, 3401, 717, 464, 3005, 3088, 1489, 2586, 3286, 3523, 3649, 3734, 1896, 811, 2433, 2927, 1800, 2435, 20, 2337, 2775, 3089, 3526, 3650, 3289, 4086, 3528, 3090, 3290, 2587, 1685, 2929, 2777, 1605, 3652]. **random** [3405, 3406, 3531, 3920, 29, 3532, 3009, 3533, 3653, 3793, 3839, 895, 1268, 3534, 578, 3010, 1900, 3679, 4113, 1596, 176, 100, 268, 1031, 2861, 269, 170, 321, 308, 129, 3769, 657, 364, 314, 3078, 2021, 2780, 3750, 2839, 2934, 294, 401, 2518, 516, 560, 484, 2903, 1763, 1870, 1886]. **random-access** [3211]. **Random-Bit** [1424, 548]. **random-difference** [20]. **Random-Number** [3674, 1615, 1347, 2705, 1738, 1544, 1639, 3772, 3243, 2220, 3945, 2002, 2121, 532, 1587, 1323, 3400, 1324, 2436, 1699, 1423, 404, 2570, 1908, 1108, 1614, 2044, 3749, 779, 2209, 2306, 2733, 3701, 656, 2741, 3469, 2908, 1666, 2113, 1312, 3624, 3381, 2337]. **random-pulse** [680]. **Random-Start** [3367]. **Random-Variate** [2997]. **random-walk** [2327]. **randomised** [1904]. **Randomization** [949, 950, 2043, 955, 1287, 2053, 3109, 1943, 645, 730, 962, 1541, 965, 970, 971, 978, 2770, 2925, 3557, 2038, 3438, 3968, 80, 1007]. **randomize** [2686]. **Randomized** [2063, 2712, 3587, 1374, 1848, 2812, 1765, 2222, 2323, 3894, 2734, 3460, 703]. **randomizer** [1519]. **Randomly** [867, 2108, 668, 2233, 1488, 22, 1850, 3461]. **randomly-shifted** [3461]. **Randomness** [3535, 675, 4043, 3795, 3015, 1029, 127, 3662, 2347, 63, 1912, 3181, 721, 2520, 3430, 1925, 1926, 3437, 1929, 2948, 3034, 1438, 1359, 2187, 686, 2622, 3205, 3337, 2880, 2628, 26, 38, 3766, 2884, 2810, 1376, 3703, 448, 3772, 2090, 2215, 2742, 2981, 3470, 1387, 1562, 1653, 525, 3909, 120, 1875, 3366, 2227, 2831, 3369, 3137, 3719, 1878, 285, 2911, 2412, 3492, 3623, 3722, 2990, 2668, 3727, 175, 2500, 2579, 1888, 3383, 3730, 3004, 2587, 3655, 3991, 4063, 2859, 3542, 3841, 468, 3019, 438, 1702, 213, 3426, 104, 3100, 1339, 3676, 1616, 3315, 42, 4002, 81, 1730, 3752]. **randomness** [442, 143, 117, 353, 1366, 3896, 1081, 1961, 23, 3224, 600, 3767, 3942, 787, 3128, 3610, 4124, 488, 2217, 3944, 1567, 3946, 840, 2663, 3257, 1479, 1667, 934, 3493, 2762, 3260, 2914, 2992, 3875, 4040, 164, 2847, 50, 3641, 942, 991, 3520, 3916, 2136, 4128, 51, 41, 2286, 508, 571, 3733]. **randoms** [905]. **'RANDU'** [725]. **RANEXP** [1948]. **RANF** [1128]. **Range** [2452, 8, 406, 1344, 1512, 1813, 1433, 2368, 1398]. **ranged** [4119]. **RANGEN** [2708]. **ranges** [2497]. **Rank** [1029, 1366, 3045, 3900, 3065, 3067, 3144].

**rank-** [3065, 3067]. **Rank-1** [3045, 3900]. **Rank-based** [1366]. **Ranking** [2159, 4005, 2188, 3715]. **ranks** [2397]. **ranlip** [2935]. **RANLUX** [2289, 2290, 1957, 2195, 2419]. **ranshi** [2189]. **RANTEST** [942]. **ranut** [2696]. **Rapid** [1982]. **rapides** [2682]. **rapidly** [74]. **rapprochés** [2209]. **Rare** [2867, 3555, 2947]. **raspredelenija** [35]. **Rate** [2266, 3859, 629, 3474, 3783]. **Rates** [1534, 1970, 290, 382]. **Ratio** [1029, 770, 1954, 2197, 829, 925, 418, 2320, 1681, 1406, 1953, 781, 4013, 2553, 1133, 1590]. **Ratio-of-Uniforms** [1954, 2197, 1681, 1406, 2553]. **Rational** [169, 3133, 2225, 2834, 3692, 1045, 4036]. **Ratios** [340, 3781, 1518]. **RAW** [3872, 3913]. **ray** [1938]. **ray-generators** [1938]. **rays** [1242, 1088]. **rBeta2009** [3805]. **RC4** [3170, 4046, 2614, 2954, 3239, 2649, 2750, 2983, 3620, 3832, 2119, 3875, 3917, 2137, 3525, 3008]. **RC4-Like** [2954, 2983, 3008, 3832]. **RC4A** [3875]. **RC6** [2539, 2627]. **RCR** [4019]. **RDRAND** [3995]. **Re** [2741, 3488]. **Re-seeding** [3488]. **reactor** [4137, 3578]. **read** [4090]. **read-write** [4090]. **Reading** [10]. **Real** [3740, 2174, 3201, 3451, 4075, 3638, 732, 2221, 2994]. **Real-Time** [3451]. **Real-Valued** [3201]. **realistic** [3752]. **realization** [3547, 3895, 3490, 2844, 2676]. **Really** [640]. **Reasonably** [1]. **Reasoning** [2864, 3265]. **receiver** [3340]. **Rechenautomaten** [176]. **recherche** [1380]. **Recipes** [1780, 2341, 2255]. **Reciprocal** [377, 379, 414, 391, 422, 423, 1378, 2333]. **Reciprocals** [749, 371]. **Reciprocation** [710]. **reciprocity** [1074]. **Recognition** [3390, 3406, 2167]. **Recommendable** [2475]. **Recommendation** [3017, 3093, 3660, 3185, 3717, 3911, 3987]. **Recommendations** [4043, 2155, 1929, 2948]. **Recommended** [2965]. **Reconfigurable** [3106, 3203, 3951, 3984, 3274, 2613, 2978, 3570]. **Reconfiguration** [3451]. **Reconstructing** [1354]. **Reconstruction** [2541, 3907]. **Record** [316, 1942, 4248, 2761]. **Recovery** [3808, 3933, 3788, 3930, 3256]. **recrystallization** [4106]. **rectangle** [1408]. **Rectangles** [2395, 3736, 2150, 1559]. **Recurrence** [374, 3733, 957, 1292, 1356, 932]. **Recurrences** [3207, 1379, 584, 1910, 2045, 2305, 2732, 2970, 2570, 2909, 2910, 3068, 3069, 1404, 2570, 2909]. **Recurring** [2081, 211, 3327, 800, 3253, 750, 2016]. **Recurring-with-carry** [2081]. **récursifs** [2682]. **recursion** [1526, 1009, 13]. **Recursions** [3114, 2093, 2094, 2042, 1985]. **Recursive** [2695, 2444, 3193, 3677, 3678, 1621, 2955, 2465, 3591, 2474, 2548, 3824, 2975, 604, 2224, 2921, 541, 3659, 3184, 3305, 2946, 3194, 3316, 1288, 643, 2300, 2301, 2382, 3599, 2968, 3122, 1854, 2204, 2206, 2308, 2389, 2740, 4116, 2104, 2106, 3947, 3265, 1792, 2681, 2768, 2769, 2848, 2849, 2999, 3001, 3084, 3085, 3384, 3510, 3512, 3640, 2682, 3286]. **recursively** [642]. **recycle** [1448]. **Redefining** [3623]. **Rédei** [3204, 3131]. **Redondo** [4263]. **reduce** [1521]. **Reduced** [3891, 113, 2623, 3860, 2752, 3788, 1153, 584, 2941, 1176, 1177]. **Reduced-Round** [3788, 2941]. **reducible** [1894]. **Reducing** [2520, 2198]. **reduction** [2447, 3589, 3590, 3457, 2550, 3975, 2847]. **Redux** [2787].

**Reexamined** [1441]. **Reference** [2154, 3326]. **reflecting** [2447]. **Refutation** [3058]. **Regarding** [3002, 1270]. **Regency** [4254, 4333]. **Regenerative** [2038, 917, 920]. **REG≫** [4126]. **region** [1462]. **Regional** [4200, 3576, 4211]. **Regions** [1146]. **Register** [1220, 1340, 1116, 1038, 3033, 411, 1540, 2549, 652, 654, 874, 489, 3619, 3729, 1591, 2436, 2439, 1280, 3188, 1522, 727, 1040, 2297, 1012, 3611, 1649, 1756, 2089, 1309, 1393, 1571, 3831, 1783, 2123, 1072]. **Registers** [2603, 519, 1580, 3269, 3515, 2771, 4025, 1737, 2083, 4036, 334, 310, 3989, 3882, 1143]. **Regression** [1742, 3191, 4012, 747]. **Regular** [3424, 3802, 3881]. **Regularities** [487, 523]. **Regularity** [2961, 3328]. **Regularly** [3784, 3107]. **Rehearsal** [3159]. **Reinfall** [2460]. **reinforce** [4087]. **Reingold** [3825, 2672]. **Rejection** [1524, 446, 1441, 1840, 1954, 2078, 2193, 1130, 2088, 845, 809, 1899, 3883, 1026, 2936, 3932, 2066, 2287, 776, 3687, 1842, 3117, 3692, 1548, 1014, 1043, 2738, 1099, 981, 850]. **Rejection-inversion** [2193]. **Rejoinder** [950, 887]. **Rekursion** [1009]. **rekursiv** [642, 643]. **rekursiv-erzeugte** [643]. **Related** [1903, 3418, 330, 791, 902, 1923, 1429, 1175, 2887, 937, 979]. **Related-Key** [3418]. **Relating** [1737]. **relation** [1436, 3343, 13, 3990]. **relational** [2065]. **Relations** [1543, 495, 3815, 932, 1776]. **relationship** [1958, 1959]. **Relationships** [848, 557]. **Relative** [1233, 1021]. **Relatively** [2011]. **relativistic** [11]. **relativistischen** [11]. **relevance** [2183, 375, 2249]. **Reliability** [1424, 2481, 2483, 3137, 3602]. **Reliable** [3091, 3020, 3486, 3799]. **Remainder** [546, 105, 106, 1310, 2767]. **Remark** [269, 1118, 1119, 381, 1178, 866, 2809, 481, 308, 255, 1192, 701, 392, 621, 626, 1056, 810, 1267, 1433, 1729, 1118, 1119, 773, 1178, 866, 1192, 810]. **Remarks** [318, 908, 196, 3968, 250, 1863, 1391, 422, 1897, 3325, 2124]. **removal** [2297]. **Renaissance** [4240]. **rendering** [3728]. **rendus** [4134]. **renormalization** [782]. **Rényi** [406]. **Repeatable** [521, 522]. **Repeating** [2798, 224]. **Repetition** [3035, 2955, 2220]. **Repetitions** [2004]. **Replacement** [2088]. **replica** [3879]. **replica-exchange** [3879]. **Replicated** [4019]. **replication** [1028]. **Reply** [2611, 1544, 672]. **Report** [1805, 3671, 4019, 3492, 104]. **Representation** [2303, 3769, 3615, 975, 1915, 685, 273, 4036, 1483, 669, 1791, 714]. **Representations** [1912, 1609]. **Reprise** [3066]. **reproducibility** [1290]. **Reproducible** [1905, 3963, 855, 3853, 2092, 1998, 2578, 1984, 1999]. **reproducing** [3065]. **Reproduction** [994]. **Republic** [4280]. **request** [2859]. **requests** [1995]. **Require** [4024]. **Requirement** [2787]. **Requirements** [2660, 2990, 3856, 3941]. **Requires** [3690]. **requiring** [2805]. **resampling** [3521]. **rescaled** [2368]. **Research** [4142, 24, 299, 4266, 3853, 4190, 4145, 47, 73, 114, 115, 171, 172, 4316, 4205, 4140]. **Reseeding** [3703]. **reservation** [2604]. **Reservoir** [1975, 1207]. **reset** [3493]. **Residue** [4065, 3199, 759]. **residues** [586, 919, 13]. **resiliency** [4091]. **Resilient** [3888]. **Resistant** [3668, 3428, 3557, 3438]. **Resolution** [3483, 868]. **Resolution-stationary** [3483]. **resolving** [3598, 3624]. **Resonances** [2419]. **Resort** [4264]. **Resource** [2253, 3275, 2594, 2604]. **Resource-Bounded** [2253, 2594].

**respect** [742, 2421]. **Response** [1639, 969, 1878, 987, 2794, 703]. **Response-time** [987]. **restricted** [3599, 3639]. **restriction** [2999]. **Restrictions** [3685, 3149]. **result** [378, 743]. **Resulting** [30]. **Results** [1903, 2348, 1337, 104, 2283, 767, 2716, 3597, 4019, 1881, 2923, 4150, 428, 1704, 2941, 3566, 406, 2061, 2074, 382, 1569, 2322, 1665, 133, 3523, 2334, 2713]. **retrieval** [273]. **Retrospective** [512]. **return** [2699]. **Rev** [3498]. **Reverse** [3001]. **Review** [294, 993, 2147, 401, 2518, 1805, 2165, 3023, 597, 1531, 508, 641, 1007, 3339, 4033, 516, 1545, 1546, 560, 2311, 484, 3769, 2903, 3061, 390, 1763, 1089, 1870, 2653, 3078, 135, 1886, 1316, 167, 168, 3733, 3101, 2059, 1539, 3222, 3827, 1787, 3645]. **Reviews** [896, 543, 2350, 319]. **Revised** [4286, 1178, 1077, 4292, 4294, 3093, 3122]. **revision** [3950]. **Revisited** [3018, 3999, 3597, 3698, 2577, 2157, 4098, 3982]. **Revisiting** [2341, 3861]. **RFC** [1929, 2948, 4123]. **RFID** [3168, 3996, 3306, 3324, 3353, 3777, 3617, 3487, 3389, 3390]. **Rhode** [4166, 4310]. **Rice** [1076, 3143]. **Richard** [170]. **rid** [2511]. **Riemann** [444]. **Right** [3393, 3702]. **Rigorous** [3258, 3724]. **Ring** [3661, 3619, 3363, 4054, 3530, 3886, 3446, 3973, 4097, 3359, 3520]. **ring-oscillator-based** [3359]. **Rings** [3199, 3288, 1712]. **Ripley** [1641, 3767]. **Riproduzione** [994]. **RISC** [4080]. **RISC-V** [4080]. **Risk** [3167, 2155, 3477]. **risk-based** [3477]. **RNA** [3006, 3007]. **RnaPredict** [3006, 3007]. **RNG** [1699, 3930, 1166, 3223, 2897, 4055]. **RNGAVXLIB** [3895]. **RNG≫** [4126]. **RNGs** [2439, 3808, 3933, 3436, 4004, 2821, 2420, 2499, 2502]. **RNGSSELIB** [3547, 3744]. **road** [1730]. **robots** [2679]. **Robust** [3296, 549, 3106, 3220, 3223, 3909, 1872, 2765, 3750, 3221, 1471, 2582]. **Robustness** [1345, 1717, 3241, 2228, 3530, 2321]. **Rockefeller** [4197]. **rocket** [256]. **Rodney** [3733]. **Roles** [2645]. **Ron** [3702]. **Roof** [2160]. **Root** [391]. **rooted** [1803]. **Roots** [795]. **ROP** [4026]. **Rosenbluth** [2957]. **Rotation** [1858, 2130]. **Round** [3671, 3891, 2944, 2623, 2720, 2724, 3860, 2752, 3788, 2941]. **Rounding** [2264, 4039, 3963, 2082]. **Rounds** [2943, 2721]. **Route** [3810]. **Routine** [1324]. **Routines** [790]. **RSA** [1330, 3083, 3289]. **RSA-Based** [3083]. **RSAEuro** [2154]. **rstream** [2971]. **Rudin** [3978]. **ruin** [964, 3224]. **rule** [242, 2587]. **Rules** [3022, 2378, 3045, 2731, 3900, 2812, 1048, 2830, 3144, 3267, 3378, 1541, 2550, 3461, 2551, 2640, 3065, 3067, 3145, 3266, 3632]. **Rumba** [3165]. **Rumor** [3851]. **Run** [1804, 1810, 1939, 2800]. **running** [3417]. **Runs** [237, 438, 506, 3200, 1006, 3369, 575, 810, 2932, 475, 1961, 53, 2816, 2979, 59, 56]. **Runs-Down** [1006]. **Runs-Up** [1006]. **Runuran** [3356]. **Russian** [3076, 352, 35]. **Russians** [3898]. **RV** [1243]. **RVGEN** [2554].

**S** [3178, 319, 1007, 1076, 447, 395, 871, 3771, 995, 2143, 3637]. **S-3800** [2143]. **Saarbrücken** [4170]. **SAC** [4294, 2623, 2880]. **SAC'99** [4262]. **Safari** [2412]. **SAFE** [3967, 4100, 2121, 4099]. **SAFE-NET** [4099]. **Salford** [1944]. **Salsa** [3165, 3890, 3891, 3860]. **Salsa20** [3174, 3175, 3553, 2943, 3597, 3779, 3788]. **Salt** [4232]. **Salzburg** [4251]. **Same** [4101, 371]. **Sample**

[720, 1110, 3675, 638, 770, 3032, 332, 59, 805, 36]. **sample-time** [332]. **Sampler** [592, 2049]. **samplers** [1810]. **Samples** [1221, 2004, 2011, 8, 433, 854, 4120, 65, 74, 18, 40, 135, 34, 232]. **Sampling** [579, 674, 947, 1155, 2030, 3993, 4107, 3673, 857, 1284, 1507, 2174, 272, 765, 766, 1121, 1524, 726, 49, 864, 1236, 514, 3816, 25, 3594, 2078, 1371, 1450, 3897, 870, 1975, 2396, 873, 3828, 1, 4054, 664, 3983, 886, 887, 888, 629, 163, 1790, 1207, 101, 633, 992, 1329, 1409, 3795, 2146, 897, 12, 1613, 240, 151, 43, 4070, 3107, 3969, 594, 595, 2066, 2287, 117, 66, 74, 75, 2299, 95, 157, 3457, 26, 31, 32, 1377, 3602, 2553, 1753, 1135, 159, 284, 3865, 28, 2828, 2409, 566, 260, 189, 1314, 2582, 2847, 990, 122, 375, 9, 107]. **sampling** [210, 137, 3521, 2138, 3157, 70, 4104, 29]. **Sampling-Based** [4107]. **Sampling-Vectorized** [3983]. **sampling/importance** [3521]. **Samuel** [4306]. **San** [4293, 4320, 4181, 4227, 4312, 4272, 4252, 4276]. **Santa** [4132, 4222, 4296]. **SAR** [4275]. **Satisfied** [414, 557]. **Satisfying** [531, 463, 1354, 3372, 461, 13]. **Saturday** [4285]. **Saturday-Wednesday** [4285]. **Saunders** [3230, 2838]. **Savage** [2555]. **Saving** [3969]. **SC'11** [4324]. **Scalable** [3316, 3354, 3956, 3812, 3753, 2894, 2559, 2560, 2350, 3228]. **Scale** [2250, 4129, 791, 187, 10, 3094, 15, 1722, 4052, 96, 3974, 1471, 2221, 1090, 2666]. **Scale-sensitive** [2250]. **Scaling** [2326, 3391]. **Scan** [3611]. **Scan-based** [3611]. **Scatter** [3328, 2141, 2430]. **scattered** [378]. **Scattering** [3560, 11]. **Schedules** [673]. **scheduling** [1851, 3477, 4102]. **schemata** [2687]. **schemata-based** [2687]. **Scheme** [3423, 1996, 3087, 3467, 797, 1665, 3628]. **Schemes** [1829, 2564, 746, 1208, 3960, 1447, 2397, 159]. **Schneier** [3264]. **Schnorr** [1582]. **School** [2866, 4152, 650]. **School-Based** [2866]. **Schwinger** [2345]. **Sci** [1076]. **Science** [4155, 4266, 4160, 4148, 4158, 4161, 4164, 4179, 4184, 4190, 4196, 4206, 4229, 4238, 4242, 4263, 4267, 4318, 4333, 4339, 4325, 4170, 4162, 4217, 4146, 4291, 4297, 4282, 4150, 4185, 4186, 993, 4168, 4261, 4249, 4281, 4149, 3724, 4208]. **sciences** [4271]. **Scientific** [4142, 3020, 1160, 4140, 1179, 1780, 2578, 4218, 3326, 2820, 4231, 4147]. **Scientist** [2857]. **Scientists** [646, 277, 1239]. **Scope** [2530]. **scores** [439]. **Scrambled** [3961, 4045, 3367, 3918, 3263]. **Scrambling** [2709, 3921]. **scramblings** [2832, 3954]. **screening** [3382, 2681]. **scroll** [3303, 3333]. **SEAC** [90]. **SEAL** [2711]. **Search** [3677, 1003, 1438, 3819, 837, 939, 940, 2703, 3194, 2608, 958, 3042, 731, 1380, 1854, 1564, 2918, 2679, 3639, 3640]. **Searches** [2707, 2300, 1462]. **Searching** [4032, 2968, 2921]. **Seattle** [4187, 4324]. **secant** [1815]. **Second** [4129, 4174, 31, 4268, 3137, 890, 4243, 4192, 4260, 3384]. **Second-level** [3137]. **second-order** [3384]. **Secondary** [3006]. **Secret** [2942, 1317, 2510]. **Secure** [3545, 2781, 3418, 1501, 3669, 4046, 4121, 2185, 2626, 2729, 3219, 3858, 3243, 4099, 2837, 3503, 3148, 1150, 1206, 3839, 2778, 4067, 3850, 3595, 1447, 2380, 4095, 1378, 3235, 3487, 3256, 3074, 2418, 1317, 4061, 3732, 2777, 3967, 1908]. **Securely** [3909]. **sécuritaire** [1908]. **Security** [4254, 3548, 3887, 3750, 2449, 1929, 2948, 3324, 3684, 2797, 2878, 2724, 3855,

3239, 4287, 2652, 2827, 2660, 3476, 3868, 3782, 2990, 1582, 3264, 3083, 2919, 4232, 4252, 4125, 3955, 4108, 4326, 4105, 2157, 2862, 3098, 4194, 1175, 3609, 1467, 797, 3364, 3370, 3376, 2996]. **Seed** [3923, 2444, 3593, 3393, 1159, 2537, 1783, 3518, 3591]. **Seeding** [1358, 2404, 3737, 1010, 3488]. **Seeds** [2820, 3948, 1245, 3377]. **seeming** [2663]. **Segmentation** [1801, 3056]. **Select** [2602]. **Selected** [4093, 4262, 2545, 657, 4292, 4294, 2182, 2281, 4286, 2989, 1266, 4294]. **Selecting** [1245]. **Selection** [1219, 3189, 272, 3029, 4005, 3816, 3593, 1475, 2103, 3191, 2391, 2640, 3715, 1018, 2491]. **Selective** [45]. **Self** [3186, 3759, 3727, 4291, 3406, 3929, 2618, 1833, 1445, 1536, 2403, 3627, 2018]. **self-adaptive** [3627]. **self-assembly** [3929]. **Self-Avoiding** [3759, 2618, 1833]. **Self-Excited** [3186]. **Self-Similarity** [4291]. **self-test** [1445, 1536, 2403, 2018]. **Self-testing** [3727]. **selfish** [3211]. **Selfridge** [3754]. **Semi** [1259, 1322, 472]. **semi-infinite** [472]. **Semi-Random** [1259, 1322]. **Semiconductor** [3373, 3278, 3392]. **seminar** [4135]. **Seminumerical** [2385]. **Semiparametric** [1488]. **sense** [876, 465]. **sensitive** [2250]. **Sensitivity** [1688, 2356]. **Sensor** [3031, 3476, 3858]. **sensors** [3636]. **Seoul** [4286]. **September** [4129, 4151, 4308, 4228, 4299, 4205, 4174, 4256, 4140, 4215, 4297, 4239, 4233, 4244, 4145]. **Sequence** [1502, 1336, 3670, 4065, 1620, 1723, 1233, 410, 444, 1540, 2729, 385, 387, 3978, 3138, 1093, 4057, 4117, 670, 3283, 2436, 913, 1061, 3177, 907, 585, 1708, 1709, 1280, 3188, 37, 472, 553, 589, 3200, 1073, 1235, 2367, 3327, 3332, 3333, 324, 1443, 3936, 3041, 868, 3762, 3595, 306, 2809, 1042, 3219, 3347, 1012, 358, 1378, 3353, 2552, 651, 734, 735, 2213, 1755, 1387, 2403, 454, 455, 1017, 1047, 2102, 3782, 3947, 1051, 3490, 1201, 3142, 1784, 1055, 1788, 3380, 50, 2507, 3647, 13, 1265, 3405, 2338]. **Sequences** [3535, 3012, 2149, 3295, 3413, 853, 267, 1502, 1030, 1106, 181, 237, 1421, 1909, 908, 2165, 183, 376, 469, 587, 3432, 550, 2525, 1624, 1116, 2610, 3029, 1123, 862, 3033, 2718, 143, 411, 1364, 511, 245, 328, 3854, 3213, 225, 3227, 448, 3608, 2817, 3907, 521, 522, 874, 606, 2561, 2562, 2902, 1562, 1653, 1303, 833, 2406, 3978, 2225, 2407, 2408, 2984, 3367, 2108, 2322, 931, 2230, 2759, 2760, 3721, 1092, 2231, 2912, 1669, 1259, 1102, 1591, 1890, 2017, 2770, 2426, 1322, 2248, 1324, 1897, 753, 3651, 211, 1802, 2252, 1414, 2932, 178, 2439, 1503, 235]. **sequences** [1422, 1701, 3561, 586, 1809, 2443, 3997, 3183, 1283, 1617, 1811, 1923, 1712, 217, 1714, 1715, 1032, 4314, 3680, 113, 1432, 1517, 1724, 1289, 590, 591, 4003, 1036, 2709, 3323, 727, 1074, 1436, 173, 301, 302, 409, 3111, 116, 1040, 174, 557, 2875, 642, 4006, 2619, 3586, 3112, 221, 222, 2533, 919, 2963, 828, 1246, 2081, 694, 3047, 2083, 1185, 1968, 1463, 2891, 1384, 2814, 3237, 3610, 3975, 2816, 1468, 1190, 388, 3710, 2217, 3976, 4078, 1564, 1764, 661, 800, 1308, 1390, 1393, 1569, 1571, 1767, 3253, 3718, 567, 2324, 1141, 3831, 3723, 1483, 569]. **sequences** [844, 882, 2840, 709, 625, 3263, 2494, 570, 1144, 3786, 346, 807, 1887, 2126, 2129, 2016, 2131, 2242, 2244, 2333, 3383, 3387, 1594, 3280, 495, 2585, 577, 1601, 3880, 1489, 811, 1685, 1898, 3652, 41, 813, 4194, 4299, 4286, 698, 737].

**Sequential** [1155, 272, 4005, 1943, 561, 785, 1131, 120, 502, 1218]. **Serial** [216, 52, 244, 2735, 878, 551, 1830, 117, 174, 412, 443, 1366, 2201, 1195, 1394, 1476, 51]. **Series** [1922, 170, 1747, 3769, 788, 250, 1994, 315, 231, 23, 1140, 20, 1605]. **Serpent** [2539, 2627]. **server** [2698, 2794, 1995]. **Service** [3540, 3541, 2787, 1028, 3474, 45]. **Services** [3261, 3341]. **ses** [1908]. **Session** [265]. **Set** [2695, 959, 2461, 2223, 2923, 2335, 1496, 728, 22, 3826, 158, 160, 1775, 667, 36, 2026]. **SETA** [4299, 4286]. **Sets** [2591, 2712, 3222, 3227, 2387, 366, 1592, 2773, 2150, 350, 1808, 42, 2454, 141, 276, 1836, 2373, 4247, 2192, 2633, 2551, 2640, 742, 1255, 1308, 1767, 1768, 2909, 3068, 568, 620, 976, 2144, 3222]. **Setting** [3393, 3602]. **seventeenth** [4166]. **Seventh** [1967, 4252, 4226]. **Several** [1918, 1843, 2382, 3705, 1513, 659, 1021]. **SFQ** [3404]. **SHA** [3671, 3867]. **SHA-3** [3671, 3867]. **Shadowing** [1733]. **Shamir** [2937]. **Shape** [823, 2234, 716, 1063, 856, 3943, 3468, 3272, 717]. **Shapes** [3755, 2911, 3584]. **Shapiro** [3978]. **Shared** [2510, 1809]. **Sharing** [2097, 2002, 3120, 3395]. **Shell** [2837]. **Shenzhen** [4323]. **Sheraton** [4165]. **Sherif** [2125]. **Sherman** [127]. **Shewhart** [1208]. **Shift** [2603, 1220, 1340, 1116, 1038, 1072, 3033, 411, 1040, 1540, 2549, 519, 652, 654, 874, 489, 3619, 1580, 2417, 2007, 3729, 1591, 3515, 2771, 4025, 2436, 2439, 1280, 3188, 1522, 727, 1737, 2297, 1012, 4095, 2083, 4036, 334, 3611, 310, 1649, 1756, 2089, 1309, 1393, 1571, 1310, 3065, 3831, 1143, 1783, 2123, 3522, 3989, 4087, 3882]. **shift-invariant** [3065]. **Shift-Nets** [2417]. **Shift-Register** [1116, 3033, 654, 489, 1591, 1280, 1522, 2297, 1012]. **Shift-Register-Sequence** [2436]. **shift-remainder** [1310]. **Shifted** [3378, 3461, 3632]. **Shifts** [2840, 3021, 3097, 161]. **shooting** [1705]. **shootout** [3962]. **Short** [239, 323, 410, 407, 4204, 1169, 601, 602, 4038]. **Shortest** [723, 1540, 2916]. **Shot** [2993, 3211, 3504]. **Should** [1202]. **Show** [2860, 1806]. **shown** [3795]. **Shrinkage** [3694, 4009]. **Shrinking** [1921, 2617]. **Shub** [2996]. **Shubert** [993]. **shuffled** [2507]. **Shuffles** [2750]. **Shuffling** [410, 746, 1499]. **Shunt** [339]. **SIAM** [4220, 4142, 1076, 4218, 939]. **sic** [2686]. **Side** [3887, 3428, 3256]. **side-channel** [3256]. **Sided** [486, 3631]. **Sieve** [4214]. **SIGACT** [4212, 4310]. **SIGACT-SIGMOD-SIGART** [4212]. **SIGART** [4212, 4310]. **Sigla** [959]. **SIGMOD** [4212, 4310, 4224]. **SIGMOD-SIGACT-SIGART** [4310]. **sign** [1966]. **Signal** [1370, 1988, 2662]. **signals** [755, 3804, 479]. **signature** [1868]. **Signatures** [881]. **Signed** [1609]. **significance** [1173]. **Significant** [259, 432, 2961]. **Significantly** [3891, 3566]. **signing** [2203]. **silico** [3653]. **SIMD** [3262]. **SIMD-Oriented** [3262]. **Similar** [3978]. **Similarity** [2352, 4291]. **SIMPL** [767]. **SIMPL/1** [767]. **Simple** [1492, 583, 1698, 1213, 1614, 912, 1621, 3851, 1084, 2557, 2403, 2097, 833, 3625, 2671, 2995, 1261, 3534, 2593, 854, 1158, 1811, 1113, 2455, 4241, 1293, 75, 3118, 4013, 2206, 2643, 3236, 3830, 624, 2504, 3272]. **simplest** [2084]. **simplexes** [3883]. **Simplicial** [3916]. **Simplicity** [2071, 2190]. **simplified** [3235, 1866].

**simplifying** [3731]. **Simply** [2722, 1849]. **Simscript** [767]. **simulate** [1532]. **Simulated** [2602, 1792, 2848, 1917, 1234, 3077]. **Simulating** [2855, 4044, 1424, 762, 1226, 1278, 554, 2907, 1396, 1094, 4076]. **Simulation** [4181, 4227, 4295, 4240, 4193, 1105, 2152, 2596, 2933, 3414, 1612, 544, 1066, 1276, 2351, 2867, 3562, 4236, 1223, 2524, 378, 1625, 2062, 2365, 3440, 639, 859, 300, 351, 864, 1236, 917, 778, 4289, 3853, 920, 1636, 2726, 2727, 4264, 1455, 870, 733, 923, 1375, 1742, 2469, 1554, 1971, 1972, 2205, 1044, 1644, 2546, 3051, 2812, 1979, 4191, 2088, 873, 657, 4250, 4141, 491, 4202, 2103, 3716, 2658, 4154, 4337, 2833, 4269, 4207, 1779, 1313, 3073, 4163, 4156, 4338, 886, 887, 4270, 2327, 4165, 888, 4210, 4225, 348, 3393, 2133, 4175, 4306, 433, 902, 1027, 4245]. **simulation** [1157, 3096, 1335, 1700, 2261, 2694, 3420, 3555, 3179, 213, 1919, 1508, 474, 1071, 274, 1293, 1125, 3760, 4140, 2535, 1537, 2299, 1181, 1296, 3119, 1452, 1963, 1460, 2971, 2086, 3607, 3943, 3715, 1766, 1989, 257, 2909, 1140, 623, 1401, 2122, 1672, 987, 375, 1597, 577, 752, 3650, 3290, 4154, 4207, 1763, 1870]. **Simulation-Based** [2469]. **Simulations** [3663, 1164, 1623, 3814, 3816, 3593, 1386, 2896, 1475, 3486, 3720, 3258, 1583, 2923, 430, 3794, 3161, 3795, 3415, 3094, 3566, 2168, 3569, 3195, 1732, 2368, 3935, 1173, 1833, 3756, 1368, 1951, 3450, 2198, 1377, 3348, 2892, 3857, 3974, 1977, 3706, 2409, 3621, 2414, 3724, 2123, 2328, 2507, 3879, 2022, 2023, 3533, 2029]. **simulative** [1762]. **simultaneously** [1802]. **SiN** [3243]. **Sinai** [3016]. **sine** [2001]. **Singapore** [4280]. **Singer** [4164]. **Single** [2705, 3828, 3385, 2604, 2794, 3329, 1314, 2239, 1884]. **Single-Photon** [2705, 3385]. **single-precision** [2239, 1884]. **single-resource** [2604]. **single-variate** [1314]. **singular** [3041]. **Sir** [4261]. **site** [3229]. **Six** [2143]. **Sixteenth** [4168]. **Sixth** [4218, 4272, 4221, 4132]. **Size** [3923, 720, 2174, 3546, 3800, 65, 74, 1959]. **sizes** [2476, 1482]. **sketch** [3140]. **sketch-based** [3140]. **SKIPJACK** [1805]. **Slice** [2828]. **Slot** [3898]. **sloth** [3942]. **Slovenia** [4239]. **Small** [2437, 3032, 3334, 3114, 1568, 3716, 2011, 3991, 4120, 42, 1365, 382, 3943, 283, 1254, 1308, 663, 976]. **Small-bias** [1568]. **small-deviation** [382]. **Small-World** [3334]. **smaller** [2199]. **Smart** [3906, 3243, 2785, 4316]. **Smart-Card** [3243]. **Smirnov** [406, 72, 64, 791, 98, 841, 190, 3631]. **Smith** [70]. **Smooth** [3429, 3651]. **smoothed** [3096]. **SNARKs** [4118]. **Snippet** [3321, 3735]. **Sobol'** [3213, 2494, 1336, 2809]. **SoC** [4107]. **Social** [2857, 3334, 2820, 4271]. **Society** [4137, 4204, 4132, 3769]. **socioeconomic** [257]. **Sofia** [4257]. **Soft** [3196, 3372]. **Soft-Core** [3196]. **Software** [3927, 3173, 2603, 2371, 828, 1451, 2637, 2638, 2736, 3054, 3126, 3900, 3704, 2650, 3130, 2218, 2481, 2483, 1662, 2760, 4144, 3293, 1632, 2805, 1243, 1380, 3768, 2904, 3360, 1576, 2842]. **Software-Oriented** [3173]. **Software/hardware** [3704]. **SOI** [3770]. **Sojourn** [2016, 2131, 2244, 2242]. **Solid** [518, 1779, 626]. **Solution** [2863, 2269, 132, 138]. **Solutions** [1420, 197, 105, 27, 1218]. **Solving** [1494, 3975, 936, 3990, 223, 1597]. **Some** [675, 1271, 1413, 150, 583, 906, 2696, 3021, 3097, 3178, 63, 1914, 912, 152, 297,

2945, 1345, 1718, 474, 3325, 767, 242, 865, 827, 2716, 1735, 557, 276, 2880, 382, 3596, 416, 356, 22, 2475, 2648, 256, 342, 343, 1983, 2742, 2479, 875, 419, 803, 1393, 1874, 2985, 1399, 3870, 1786, 2124, 2239, 538, 3002, 1147, 428, 945, 1897, 1611, 3995, 104, 406, 1717, 442, 2065, 198, 1534, 2196, 1846, 1373, 1042, 85, 2305, 3468, 3250, 3479, 132, 2914, 2768, 2134, 813]. **Sophie** [2900]. **Sophie-Germain** [2900]. **Sorrento** [4228]. **sort** [1258]. **Sorted** [951, 905]. **Sosemanuk** [3173]. **sound** [2381, 3869]. **Source** [1107, 3888, 3342, 3901, 654, 2236, 4128, 1212, 2785, 219, 3592, 3761, 4080, 2998]. **Sources** [1269, 1328, 3015, 30, 3441, 3911, 1259, 1322, 1339, 1557, 1859, 3944, 2829, 2330, 3987, 3520]. **sous** [805]. **Southeast** [4200, 4211]. **Sowey** [937, 979]. **SP** [3098, 3911, 3498]. **SP800** [2959, 3719]. **SP800-22** [2959, 3719]. **Spa** [4264, 2076]. **Space** [3207, 3130, 1695, 3439, 826, 690, 1573, 1772, 3830, 188, 2574]. **space-bounded** [1573, 1772]. **space-efficient** [3830]. **Spaces** [4044, 4006, 1568, 3065, 3082]. **Spacings** [367, 1961, 2310, 2634]. **Spanish** [134]. **sparing** [1148]. **Sparre** [238]. **Sparse** [1530, 2735]. **sparsest** [3765]. **sparsity** [3813]. **Spatial** [2547, 3100, 3767, 934, 3380]. **Special** [3037, 3760, 3824, 2355, 2915, 3076, 3286]. **Species** [186]. **Specific** [3809, 4300, 1015, 2029]. **Specification** [4010]. **Specifications** [2536]. **Specified** [2601, 1855, 2396, 3374]. **Specker** [3655]. **Spectral** [4044, 1713, 772, 773, 1178, 866, 1077, 4035, 4017, 453, 3365, 2915, 3076, 3402, 2453, 689, 3042, 2377, 2301, 2308, 2768, 2849, 3384, 1319]. **spectrally** [4083]. **Spectrum** [2959, 3465, 3915, 4108, 3873]. **Speed** [2437, 3336, 3899, 655, 3484, 3373, 101, 3648, 3402, 3844, 2785, 3198, 3322, 2874, 3446, 1740, 118, 2203, 129, 2552, 796, 227, 566, 1201, 2994, 122]. **Speedy** [1676]. **Sphere** [196, 201, 3769, 3615, 605, 849, 1593, 1149, 431]. **Spheres** [205, 1181, 3394, 270]. **Spherical** [342, 343]. **Spherically** [169]. **Spin** [3812, 3218, 739]. **spintronics** [3812]. **spirals** [1326]. **Splittable** [3748, 3877, 3837, 4059]. **Splitter** [2705]. **splitters** [3381]. **Splitting** [1645, 2183, 2249, 2586]. **sponge** [3666]. **spongy** [3832]. **sponsored** [4142, 4153]. **Spontaneous** [3524]. **Spooler** [2116]. **Spread** [4108]. **Spreading** [3851, 3340]. **spreadsheet** [2904]. **Spritz** [3832]. **SPRNG** [2350, 2559, 2560]. **sprout** [3377]. **Square** [827, 44, 391, 3475, 1721, 1722, 2618, 94, 1641, 3229, 88, 14]. **squared** [1365, 1183]. **Squarefree** [3027]. **Squares** [3978, 4003, 1453, 161]. **squaring** [1320]. **Squeeze** [885, 986, 832, 1099]. **SR** [3790]. **SRAM** [4090, 3342]. **SRS** [1961]. **SRU** [612]. **SSE2** [3547]. **St** [4196]. **Stability** [319, 1829, 692, 395, 2256, 2632]. **Stable** [762, 4109, 3594, 2538, 3044, 2470, 4056, 1278, 3317, 1396]. **Stack** [2913]. **STACS** [4170]. **Stage** [1109, 3575, 159]. **staircase** [1764, 1898]. **Standard** [1506, 3675, 1431, 2536, 1877, 3867, 3726, 817, 681, 4070, 1963, 1643, 1668, 3982, 3115, 4265, 2500, 2579]. **Standards** [91, 2573, 167]. **Stanford** [4248]. **Star** [3025, 3045, 3144, 3267, 3378, 3145, 3632]. **Start** [587, 3367]. **Start-Up** [587]. **STATCOM** [3186]. **State**

[1107, 3342, 3130, 119, 3151, 1212, 3930, 3439, 1971, 1972, 4154, 133, 3652]. **state-of-the-art** [4154]. **State-transition** [3151]. **States** [3442, 2220, 4018, 3712, 3778, 3504]. **stationarity** [821]. **Stationary** [351, 692, 788, 3120, 2632, 3254, 3483]. **Statist** [1278, 1076, 1043, 696, 697]. **Statistic** [127, 956, 1118, 841, 1275, 1234, 1641, 3767, 1046]. **Statistical** [4043, 2857, 901, 3091, 2597, 3416, 819, 720, 855, 1713, 953, 2268, 1034, 588, 506, 1824, 2362, 3110, 956, 1117, 1118, 1119, 24, 47, 73, 114, 115, 171, 172, 299, 1037, 2614, 1235, 1356, 863, 2530, 556, 1170, 1734, 2796, 3581, 1439, 772, 773, 2718, 2956, 1173, 1006, 2801, 509, 3337, 778, 415, 245, 1178, 866, 1077, 1241, 1962, 966, 2884, 649, 2388, 3899, 788, 2645, 4325, 1654, 2481, 1192, 87, 2659, 802, 879, 1049, 1392, 1572, 3719, 285, 744, 2667, 2668, 3498, 2576, 846, 889, 2420, 2499, 2501, 2502, 2503, 3509, 3952, 1487, 2246]. **Statistical** [810, 1058, 1152, 1267, 992, 4063, 4135, 3546, 3659, 1335, 1700, 2260, 2261, 2694, 3420, 3422, 236, 3436, 4001, 1817, 914, 1937, 2706, 860, 2368, 352, 4157, 4007, 1368, 3761, 1296, 2381, 332, 4013, 4139, 2969, 4015, 2642, 4037, 1760, 2482, 2747, 2904, 2982, 3244, 1309, 3946, 4147, 1142, 1401, 2490, 2913, 394, 2681, 3838, 209, 991, 3880, 2028, 469]. **Statistically** [864, 870, 873, 886, 887, 888, 3830, 3869]. **statisticheskii** [352]. **Statisticians** [4151]. **Statistics** [2031, 4135, 821, 3321, 2705, 4155, 3028, 1828, 4160, 4331, 508, 2288, 4157, 644, 4148, 2744, 525, 54, 704, 538, 292, 4185, 4186, 4151, 4168, 4143, 215, 4183, 1435, 4279, 2800, 1174, 1365, 2723, 3246, 2666, 2761, 1263, 2421]. **STATLIB** [1487]. **Steady** [1971, 1972]. **Steady-state** [1971, 1972]. **Stealthy** [3745]. **Stein** [2450]. **Step** [1364, 3138, 1138, 1394]. **steps** [505]. **Stern** [2942]. **Still** [360, 4075]. **Stimulated** [3560]. **STOC** [4283, 4293, 4298, 4334]. **STOC'12** [4327]. **Stochastic** [4172, 3994, 4153, 2269, 2062, 2612, 1940, 304, 917, 3819, 2469, 1971, 1972, 186, 1858, 97, 1473, 609, 4039, 390, 3486, 3720, 3258, 1313, 3073, 4117, 3377, 1679, 3290, 102, 993, 1157, 3963, 3672, 4274, 4315, 198, 1361, 3756, 1125, 1851, 2971, 3348, 1968, 3775, 834, 361, 1139, 1663, 2758, 3724, 708, 62, 2028]. **Stochastically** [2714, 1035, 1167]. **Storage** [4324, 273]. **Storjohann** [3589]. **STR** [4122]. **Strahler** [1928]. **Strahlung** [11]. **straight** [1258]. **Strange** [1710]. **strata** [3457]. **Strategies** [3808, 3933, 736, 3382]. **Strategy** [596, 3862, 1993]. **Stratified** [1099, 3457]. **Stream** [3537, 1494, 2930, 3166, 3173, 3175, 2783, 3667, 2444, 2786, 3110, 3116, 3130, 3242, 3620, 4303, 2119, 2575, 2673, 3525, 2928, 3008, 1687, 3294, 3176, 3325, 1234, 2538, 3044, 3217, 3973, 3611, 1474, 1761, 3472, 3832, 2998, 3284]. **Stream-Cipher** [2673, 1687, 3284]. **Streams** [2277, 2280, 2971, 3720, 936, 3742, 3744, 2453, 3760, 2733]. **Street** [3862]. **Strela** [192]. **strength** [3831, 4102]. **strength-** [3831]. **Strengthen** [3713]. **Stretch** [3739, 3658]. **Streuung** [11]. **Stringency** [2850]. **Stringent** [991, 4098]. **Strings** [2525, 1902]. **Strong** [3655, 3295, 3413, 1030, 1106, 865, 2371, 2729, 2217, 3371, 4101, 1102, 1322, 2166, 1812, 3568, 2842]. **strongly** [1199]. **Structural** [1646, 2739]. **Structure**

[545, 1624, 2724, 3824, 606, 799, 2487, 1591, 3006, 1060, 1209, 1325, 584, 2160, 3182, 3965, 1923, 1516, 1724, 1823, 1289, 2281, 3343, 2302, 1462, 2476, 2633, 2213, 2740, 1859, 1190, 659, 800, 1776, 1097, 1891]. **Structures** [3591, 874, 2182, 2305, 1652]. **stückweise** [625]. **student** [4114, 854, 871, 967, 40, 2927]. **Studies** [1214, 1046, 264, 357]. **Study** [1345, 4030, 521, 285, 4147, 1404, 3270, 3271, 3513, 3004, 2272, 2526, 3323, 768, 1542, 3056, 1467, 257, 373, 2134, 3406, 3394]. **Studying** [3617]. **Sub** [1480, 1209]. **Sub-** [1480]. **sub-lattice** [1209]. **subdivisions** [1938]. **Subgroup** [1285]. **subharmonic** [208]. **sublattice** [3343]. **Sublinear** [4048, 1129, 1299]. **Submission** [2896]. **Subroutines** [1566, 1869, 1487]. **Subsequences** [2282, 2283, 448, 2363, 1355, 1180, 4038, 4042]. **Subset** [3554, 3397, 2868, 3191, 1447, 4103]. **Subsets** [944, 3826, 3268, 1600]. **Subspaces** [2470]. **substitute** [3869]. **Substitution** [3711, 3864, 797, 4061, 2138]. **Substitution-Permutation** [3711, 3864]. **substreams** [2733]. **substructure** [3472]. **Subtle** [1806]. **Subtract** [1793, 3950, 1891]. **Subtract-with-Borrow** [1793, 3950, 1891]. **subtractions** [2082]. **subtractive** [754]. **Successful** [1359, 3862]. **successive** [2305, 2472]. **Such** [1, 480, 3058]. **Suggestions** [2218]. **Suitable** [1558, 3501, 3785, 3846, 1343, 1090]. **Suite** [3416, 3559, 2667, 2668, 3498, 3803, 4098, 3719, 2884, 3509, 3952]. **Suited** [1840]. **Suites** [3855, 698, 737, 178, 1036, 1594]. **Sulla** [16, 17]. **Sum** [3554, 3565, 1297, 2822, 563, 1197, 2590, 2148, 1068, 2868, 1952, 1447, 2198, 2310, 4103, 3397]. **Sum-discrepancy** [2822]. **sum-functions** [2310]. **summability** [48, 60]. **summands** [4084]. **summary** [71, 89]. **Summer** [265]. **Sums** [1418, 3423, 1930, 3030, 826, 3585, 688, 690, 1461, 1550, 419, 2755, 2320, 1581, 4021, 3002, 2588, 719, 3555, 238, 3107, 1822, 2873, 1232, 3036, 3204, 382, 305, 3452, 964, 3119, 84, 417, 340, 2219, 803, 2566, 2567, 2986, 3253, 3280, 578]. **Super** [2724, 3771, 2084, 656, 3469, 3904]. **SUPER-DUPER** [656]. **Super-luminescent** [3771]. **Super-Pseudorandomness** [2724]. **Supercomputer** [1684, 2143, 1693, 2067, 1479, 1667]. **Supercomputers** [1493, 1470, 1651, 1703, 1632, 1458, 1741]. **Supercomputing** [4234, 4199, 4197, 4223, 1576, 1662, 3840]. **Superconductive** [3637, 3404]. **supercube** [2409]. **superior** [1666]. **superiore** [471]. **supplement** [3874, 937, 979]. **supplies** [1666]. **Support** [3002, 2271, 3857, 1868]. **supported** [1949]. **Supposed** [1]. **suppression** [2271]. **Surface** [196, 241, 201, 2814, 605, 849]. **Survey** [1411, 3667, 1337, 1038, 512, 3905, 3470, 2227, 984, 985, 291, 2925, 1704, 2359]. **survival** [1035, 1167]. **SWAC** [92]. **Swan** [4225]. **Swarm** [4112, 3298, 3417]. **SWB** [1923]. **Swendsen** [2908]. **Switched** [3106, 3490]. **Switched-Capacitor** [3106]. **Switching** [757, 899]. **Switzerland** [4308]. **SX** [1994]. **SX-3** [1994]. **Symbolic** [4213, 1829, 4230, 4215]. **Symbolic-Numerical** [1829]. **Symmetric** [2349, 169, 4109, 3324, 598, 622, 3156, 854, 1068, 1135, 2421]. **symmetrical**

[3053]. **symmetrized** [1758]. **Symmetry** [2849]. **Symposia** [4142]. **Symposium** [4220, 4166, 4171, 4176, 4182, 4187, 4192, 4203, 4212, 4221, 4226, 4235, 4253, 4260, 4273, 4278, 4283, 4293, 4298, 4311, 4320, 4327, 4334, 4129, 4199, 4312, 4168, 4137, 4213, 4132, 4261, 4155, 4160, 4205, 4157, 4148, 4130, 4158, 4161, 4164, 4179, 4184, 4190, 4196, 4206, 4229, 4238, 4242, 4263, 4267, 4317, 4318, 4333, 4230, 4170, 4133, 4215, 4219, 4150, 4243, 4232, 4252, 4185, 4186, 4131, 4246, 4183, 4255, 4310, 4145]. **Symptoms** [3535]. **synchronization** [3319, 3377]. **synchronized** [1689, 3411, 2000]. **Syndrome** [2185]. **Synthesis** [489, 3975, 310, 3989]. **Synthesizers** [2486]. **synthetic** [1942]. **System** [4312, 2254, 1105, 2152, 2596, 2933, 3414, 995, 1424, 4065, 2602, 3104, 3105, 3196, 2451, 959, 1946, 1947, 2073, 788, 2975, 2404, 3063, 2833, 1, 2116, 1481, 1148, 3390, 3187, 3313, 3434, 2788, 3320, 2951, 1036, 3578, 2616, 3756, 76, 3762, 2298, 1851, 1974, 3610, 1978, 1868, 2907, 3782, 3279, 80, 485, 467, 676]. **SYSTEM/360** [485]. **Systematic** [2300, 3251, 2908, 939, 940, 2918, 2326]. **système** [1036]. **systèmes** [344, 1594]. **Systems** [4212, 673, 1269, 1328, 4254, 1498, 2350, 587, 4107, 4308, 2787, 170, 1927, 2449, 4071, 3759, 917, 4300, 1858, 2746, 2097, 4215, 3484, 4207, 2673, 3270, 3271, 4233, 2854, 1689, 3296, 3546, 1277, 3566, 2604, 1730, 3813, 3341, 1446, 3818, 4075, 1963, 4268, 739, 1253, 344, 257, 3479, 3480, 3482, 3718, 4310, 1995, 3372, 1672, 3914, 3915, 1315, 750, 1594, 1148, 1677, 3879, 2022, 577, 3010, 3570, 3733]. **Systolic** [2161, 1274].

**T** [597, 641, 2078]. **T-Concave** [2078]. **T.** [543]. **Tabla** [134]. **Table** [2030, 3310, 835, 847, 79, 3878, 1329, 693, 520, 796, 45, 3791]. **table-free** [1329]. **Table-Hadamard** [3878, 3791]. **Table-Lookup** [835]. **Tables** [317, 6, 24, 299, 445, 21, 32, 2476, 2477, 18, 313, 2102, 2568, 135, 191, 69, 50, 70, 47, 73, 114, 115, 171, 172, 1365, 307, 2386, 7, 896, 134]. **Tabular** [3309]. **tabulated** [2029]. **tabulation** [3953]. **tackled** [2663]. **Tackling** [4022]. **Täfelungen** [1039]. **Tag** [3476, 3306, 3617]. **Tags** [3168, 3996, 3487, 3502]. **Tail** [956, 1118, 688, 1341, 3119, 3614]. **tailed** [3555, 1605]. **Tails** [2860, 884, 983, 3107]. **Taken** [8]. **Talk** [2531]. **tandem** [3302]. **tangent** [1966]. **Tap** [2436]. **taps** [2495]. **Target** [1705]. **Targeting** [3274, 3886]. **Targets** [342, 343]. **task** [1634]. **TaskLocalRandom** [3869]. **tasks** [3869]. **Tatzmannsdorf** [4157]. **Tausworthe** [1061, 1811, 1716, 764, 1519, 476, 1073, 1436, 2207, 799, 1049, 527, 1670, 1675, 575, 670]. **Tb** [3771]. **TDC** [4122]. **TDIST** [2927]. **TEA** [2941, 2623, 2720, 2721, 2804, 2881, 2752, 2319, 2142]. **Teach** [2787]. **Teaching** [3321, 3214]. **Technical** [2154, 2077, 1863, 2820, 2120, 4243, 4259, 3857, 239, 323, 410, 407]. **Technique** [1441, 2078, 833, 3642, 1026, 1032, 75, 2805, 3947]. **Techniques** [4167, 3667, 3558, 3563, 4177, 2445, 1924, 272, 2729, 1555, 2820, 657, 4141, 3164, 4173, 474, 4073, 559, 157, 1597, 3650, 100]. **Technologies** [4010]. **Technology** [2350, 4000, 4148, 4323, 4304, 4305, 4249]. **Teil** [533, 534]. **Telegraphic** [1858]. **Temperature** [3379, 3633]. **tempering** [2511].

**temporal** [1913]. **ten** [15]. **Tennessee** [4174]. **Tenth** [4272]. **term** [3599, 2968, 3122, 3084, 3510, 3640]. **terms** [2301, 252, 1201]. **termwise** [3387]. **TERO** [3994]. **TERO-Based** [3994]. **Terrain** [2114]. **TES** [1656]. **Test** [4043, 2345, 2597, 1029, 127, 3416, 949, 950, 4064, 237, 3559, 239, 1279, 2041, 2174, 506, 767, 3035, 772, 773, 2798, 2955, 144, 598, 2880, 1178, 962, 866, 1077, 965, 3766, 2884, 970, 971, 3057, 44, 1191, 2980, 2745, 1654, 120, 878, 1664, 3137, 1878, 3948, 3492, 978, 2667, 3498, 1881, 1100, 748, 2419, 2125, 3509, 1888, 3952, 2850, 2924, 3279, 3283, 810, 88, 895, 3410, 718, 3163, 755, 235, 3803, 2166, 2699, 320, 1812, 475, 1350, 1351, 1939, 2453, 1168, 117, 174, 412, 443, 3444, 93, 689, 4007, 2377, 1445, 1536, 3209, 224, 416, 2964]. **test** [2301, 2201, 2085, 2646, 4098, 2555, 4017, 3709, 98, 2403, 2822, 1760, 3365, 1138, 1195, 1394, 1476, 3719, 2112, 46, 2913, 2914, 627, 2504, 2016, 2131, 2242, 2244, 2849, 3384, 1319, 2018, 51, 232, 29, 3163, 2959, 1636, 4011]. **Test-Pattern** [748]. **tested** [1918, 3450, 2382, 3862]. **Testing** [2597, 2155, 2599, 1279, 3189, 1070, 1347, 1348, 2175, 2176, 2710, 824, 413, 3591, 867, 3451, 155, 1964, 225, 1748, 2638, 2736, 3054, 3126, 3767, 3232, 3705, 2647, 520, 1304, 1089, 2569, 3484, 935, 1053, 2668, 3260, 2420, 2499, 2500, 2501, 2502, 2503, 2579, 630, 890, 1262, 2845, 136, 1678, 2139, 1151, 852, 500, 2515, 467, 1699, 3422, 3100, 1924, 3318, 1002, 764, 1825, 91, 92, 352, 3444, 202, 4011, 2206, 2391, 3125, 3768, 1974, 4037, 158, 160, 130, 3946, 619, 702, 345, 2992, 3727, 1885, 573, 50, 165, 942, 2509, 4128, 3880, 2024, 2140, 2432, 1062]. **TESTRAND** [1089, 1002, 1070, 1347]. **Tests** [675, 948, 63, 2168, 1713, 1001, 638, 2282, 3754, 1439, 1528, 1006, 200, 83, 3337, 23, 3224, 1742, 649, 2209, 2307, 2310, 2388, 2547, 2735, 3232, 791, 1861, 2215, 2742, 2659, 3369, 3137, 3719, 934, 175, 2669, 1263, 1264, 2512, 2688, 4063, 468, 438, 1701, 104, 3184, 42, 3436, 3809, 4001, 955, 1287, 2053, 3109, 242, 2064, 1235, 1356, 863, 1171, 1075, 117, 1173, 1366, 4007, 3042, 3761, 1241, 2196, 1961, 1183, 2885, 2306, 2308, 2392, 2634, 786, 2312, 4015, 787, 4037, 794, 2223, 879, 1049, 2322, 1775, 974, 3488, 2762, 533, 534, 1882]. **tests** [627, 164, 2243, 2332, 2333, 2422, 2768, 991, 2852, 3916, 2022, 2023, 2136, 2209, 2090, 1007]. **TESTU01** [3061, 2638, 2736, 3125, 3352, 3768, 4040, 3054, 3126]. **Texas** [4160, 4252, 4165]. **Texture** [814, 961]. **Textured** [1801]. **theatres** [1260]. **thefts** [3751]. **Their** [514, 2729, 2547, 2645, 1248, 1976, 2486, 1060, 3, 3889, 3680, 1930, 1633, 3935, 4299, 4286, 2297, 3343, 449, 450, 1047, 1660, 2567, 3142, 371, 149, 3635, 2777]. **Theme** [4186]. **Theorem** [1418, 2728, 106, 3655, 238, 1074, 3588, 3452, 33, 3614, 3861, 417, 2826, 3250, 660, 1199, 2421, 2767, 1277, 2612, 3062, 2917]. **theorem-based** [3588]. **Theorems** [2031, 3423, 2165, 72, 356, 3769, 3615, 607, 2230, 2759, 702, 582, 1519, 64, 661, 190, 3646]. **theoretic** [2317]. **Theoretical** [779, 4170, 974, 3085, 1799, 3523, 2206, 2322, 666]. **Theorie** [246, 4, 4145]. **Theory** [4166, 4171, 4176, 4182, 4187, 4192, 4203, 4221, 4226, 4235, 4253, 4260, 4273, 4278, 4283, 4293, 4298, 4311, 4320, 4327, 4334, 3412, 1498, 180, 820, 2159, 4167, 2165, 4177, 638, 38, 3222, 834, 2111, 2112, 2230, 4198, 4291, 4058, 4138, 2923, 2426, 1266, 1059, 4145, 913, 102, 437, 4137, 4,

4246, 4204, 2038, 4274, 2072, 246, 963, 4139, 1553, 1977, 256, 4216, 743, 2756, 68, 1395, 1666, 567, 2118, 2992, 571, 2132, 3155]. **there** [2141, 2430]. **thereof** [3518]. **Thermal** [3404, 2978]. **thermostat** [3377]. **Things** [4020]. **Thinking** [2787]. **Third** [3671, 4265, 1262, 4246, 4237, 4286, 4139, 3640]. **third-order** [3640]. **Third-Round** [3671]. **thirty** [4253, 4260]. **thirty-first** [4253]. **Thiry** [4273]. **Thiry-Fourth** [4273]. **Thomas** [1089]. **Thomson** [236]. **thought** [3058]. **Thoughts** [686, 1579, 2099]. **Three** [1083, 1091, 3381, 1916, 3574, 4007, 693]. **three-level** [4007]. **Three-Point** [1083]. **Threshold** [2604, 3776, 2335, 3229, 3471, 2026]. **Threshold-Accepting** [2335, 2026]. **Throughput** [4110, 4122, 3703, 3303, 3650]. **Tied** [2787]. **Tight** [1941]. **tile** [3929, 2719]. **tilings** [1039]. **Tillich** [3257]. **Tilted** [3594, 4056, 3317]. **Time** [3552, 682, 2266, 1621, 2285, 2798, 2962, 3451, 733, 1747, 1975, 2232, 1695, 1696, 582, 2782, 3171, 2699, 3969, 2794, 1941, 776, 332, 1464, 969, 3612, 3862, 1017, 2099, 3363, 3255, 1140, 987, 3638, 2016, 2131, 2242, 2243, 2244, 1796, 4023, 3644, 3399, 20, 1605, 3531, 3920, 1634]. **time-dependent** [3612, 3920]. **time-space** [1695]. **time-tested** [3862]. **Times** [2556, 947, 1634, 2000, 896]. **Timestamp** [2510]. **timing** [3372]. **Tina** [3549]. **tiny** [2142, 2779, 3532]. **Tippett** [43, 49, 28, 29]. **TKIP** [3917]. **TLP** [908, 1042]. **TLS** [4050, 4075, 3855, 3917]. **TODAES** [3622]. **today** [4178]. **Together** [4101]. **Token** [3820]. **Tolerance** [720, 3148]. **Tolerant** [3379, 3749, 1253, 3507]. **tomorrow** [4178]. **Too** [3808, 3933, 3625, 470]. **Tool** [3900, 2554]. **Toolbox** [3562]. **Toolkit** [3657, 2206, 3258]. **Tools** [3091, 4040]. **Top** [2564]. **Top-Level** [2564]. **topics** [937, 979]. **Topologies** [3517]. **topology** [2751]. **Tosser** [3455]. **Tossing** [3924, 1806]. **Touted** [2556]. **tracing** [1938]. **Tract** [70]. **trade** [1695, 4091]. **trade-off** [4091]. **trade-offs** [1695]. **tradeoff** [4095]. **Tradeoffs** [2962]. **Traffic** [507, 2794, 147, 3395]. **Training** [587]. **trajectory** [3377]. **Transactions** [4139]. **transcendental** [1373, 373]. **Transfer** [593, 33]. **Transfer-Matrix** [593]. **Transform** [1903, 2352, 3970, 2959, 3251, 852, 1711, 3764, 3374, 3791]. **Transformation** [1688, 658, 3367, 894, 3792, 1706, 722, 43, 4013, 929, 930, 2001, 2575, 2421, 1024]. **Transformation-Based** [3792]. **Transformations** [296, 2296, 2197, 2629, 795, 3659, 1273, 194, 2049, 1733, 3338, 3343, 1261]. **Transformed** [2366, 1954, 809, 1842, 3117, 2738]. **Transforming** [2866]. **Transforms** [538]. **Transition** [54, 3151]. **transmission** [95, 483, 2000, 4118, 499, 4194]. **Transparent** [4026]. **Transport** [3855, 1225, 1290]. **transportation** [3341]. **transpositions** [1000]. **Trapdoor** [1104, 1059]. **trapezoidal** [3596]. **trapped** [4124]. **trapped-ion** [4124]. **Treatment** [2704, 1866, 87]. **tree** [1290, 1320]. **Trees** [1789, 1694, 1803, 1915, 1928, 1122, 1443, 1850]. **Trends** [3159, 1661]. **Trial** [1194]. **Trials** [647, 691, 147, 394]. **Triangle** [4190]. **triangles** [2192]. **Triangular** [1418, 3423, 3718]. **Trident** [3478]. **Trier** [4205]. **trigamma** [1720]. **Trinomials** [1738, 2217, 2016]. **triple** [2862, 2965]. **triples** [2058, 2276, 2358]. **trivariate** [4084]. **trivial** [774]. **Trivium** [3192]. **TRNG**

[3994, 4122, 4097, 3859, 4101, 4104]. **TRNGs** [4018, 3530]. **Trojans** [3745]. **True** [2859, 3168, 2781, 3661, 3563, 4089, 4107, 3674, 3106, 3196, 2793, 3202, 2613, 3752, 1359, 3342, 3208, 3451, 2630, 3899, 3770, 3464, 3945, 3136, 3484, 4054, 3722, 3375, 2669, 2841, 3081, 3379, 3507, 3637, 3148, 3276, 2851, 3400, 3402, 3162, 3538, 3539, 3886, 3176, 3177, 3301, 3302, 3303, 3332, 3333, 3335, 3344, 2552, 3606, 3612, 3359, 3633, 3513, 3520, 3732, 3526, 3090, 3279, 3396]. **Truly** [3306, 3577, 861, 2717, 3447, 3771, 1997, 539, 540, 3171, 3960, 2785, 3812, 2616, 603, 3712, 3778, 576, 632, 672]. **Truncated** [2942, 2943, 1551, 419, 1488, 857, 4047, 1354, 1175]. **trust** [2375]. **Trusted** [4125]. **trustless** [3949]. **Trustworthy** [3942]. **trx** [3942]. **Tsallis** [3077]. **Tucson** [4161]. **Tunable** [3334, 2883]. **Tuning** [2850, 2924]. **Tunnel** [4089]. **tuples** [2472]. **Turán** [2073, 660]. **Turbo** [3729, 1622, 1377]. **TURBO_RAND** [1236]. **Turbulence** [1925, 1460]. **turbulent** [2717]. **Turing** [4328, 3095, 3662, 3999, 4330]. **turn** [2542]. **Tutorial** [1411, 1164, 1629, 1726, 1465, 1096]. **Tweedie** [3884]. **Twelfth** [4212]. **twentieth** [4182]. **Twenty** [2519, 4187, 4192, 4203, 4221, 4226, 4235, 4310]. **twenty-eighth** [4235, 4310]. **twenty-first** [4187]. **twenty-fourth** [4203]. **twenty-second** [4192]. **twenty-seventh** [4226]. **twenty-sixth** [4221]. **Twin** [3656]. **Twin-float** [3656]. **Twist** [2678]. **Twisted** [1759, 1987]. **Twister** [4000, 2402, 2787, 3815, 4008, 2895, 3060, 3486, 3262, 3501, 3785, 4023]. **twisters** [2568]. **twisting** [3195]. **Two** [3159, 2031, 1109, 996, 1506, 3888, 549, 2064, 2721, 3598, 3213, 3216, 1299, 1551, 3901, 1858, 654, 418, 54, 2838, 3631, 2010, 4084, 374, 1322, 429, 812, 718, 499, 1499, 1064, 403, 1631, 1727, 1728, 1933, 1934, 2179, 2357, 2358, 1352, 1292, 1356, 2719, 480, 3818, 1129, 3599, 781, 2968, 3122, 1646, 483, 186, 2087, 3463, 2213, 1251, 2823, 739, 3944, 2986, 1095, 2326, 34, 2681, 3084, 3510, 3640, 1486, 2584, 2774, 2338]. **Two-bit** [3598]. **Two-Dimensional** [3213, 3216, 1858, 54, 718, 2213, 739, 2326, 2584, 2338]. **Two-Queue** [996]. **Two-Sided** [3631]. **Two-Source** [3888, 3901]. **Two-Stage** [1109]. **two-term** [3599, 2968, 3122, 3084, 3510, 3640]. **Twofish** [2539]. **Type** [2724, 155, 2629, 791, 2991, 891, 2246, 3293, 4106, 406, 1822, 1171, 1532, 357, 703, 3277, 3649, 3734]. **Types** [3705, 578].

**Übertragungsprinzip** [33]. **UHF** [3996]. **UHF-RFID** [3996]. **UK** [4328, 4288]. **uklonenijah** [35]. **Ukraine** [4213]. **Ulam** [3683]. **Ulrich** [897]. **Ultimate** [2282, 3619]. **Ultra** [3526]. **Ultra-lightweight** [3526]. **ultracomputers** [1311]. **Ultrafast** [3810, 3902, 3346, 4052, 3644]. **Ultrahigh** [3373]. **Ultrahigh-Speed** [3373]. **Unavoidable** [1071]. **Unbiased** [1107, 1339, 1212, 589]. **Unbounded** [3030, 2873, 3117]. **uncertain** [3331]. **uncertainty** [4274, 1229, 3363]. **unclonable** [3928]. **Unconditional** [3238]. **Unconstrained** [2109]. **Uncorrelated** [1500, 298]. **Uncovering** [2488]. **Underlying** [867]. **Understanding** [3046, 3871]. **unequal** [140]. **unicorn** [3942]. **Unified** [2031, 2060, 1555, 4081, 290, 2019, 570, 3155]. **Uniform** [815, 1411, 1803, 1703, 405, 1428, 1509, 3848, 2789, 1285, 684, 1442, 829, 518,

694, 3047, 1465, 1973, 2311, 2393, 2394, 2475, 2637, 3604, 1084, 787, 2737, 3357, 359, 1558, 1087, 1656, 3133, 2105, 1586, 2132, 3151, 3515, 429, 3403, 3408, 3883, 1410, 2250, 1802, 1273, 1062, 2696, 911, 403, 3099, 3847, 2355, 1031, 1513, 1717, 1718, 2703, 2788, 1224, 1938, 2064, 3934, 768, 1355, 3444, 1363, 1533, 689, 3041, 246, 1841, 383, 2298, 1243, 781, 85, 2310, 3603, 734, 735, 2644, 252, 2402, 610, 660, 743, 929, 930, 3068, 121, 1399, 665, 368, 976, 626, 3786]. **uniform** [1674, 807, 2580, 1264, 849, 3086, 3152, 3275, 3790, 942, 5, 1896, 2775, 3435, 3115, 3052, 427, 1316]. **uniform-Gaussian** [2298]. **uniformément** [178]. **Uniformity** [2159, 1001, 868, 2735, 3608, 496, 3032, 2647, 2219, 1138, 1887]. **Uniformization** [1203]. **Uniformly** [270, 196, 201, 1744, 1747, 563, 205, 1146, 807, 178, 1513, 2455, 1238, 479, 306, 1297, 2979, 1205, 714, 1489]. **uniformly-distributed** [178]. **Uniforms** [1954, 2197, 1681, 1406, 1953, 2198, 2553, 1590]. **Unifying** [3773]. **Unimodal** [1112, 2270, 1135]. **Unique** [3442, 1379, 3287]. **unit** [431]. **units** [3417, 3746, 3226, 96, 3714, 3569]. **unity** [1063]. **Univariate** [2945, 1082, 515, 1960, 2643]. **Universal** [3842, 2936, 2171, 1367, 2644, 2737, 3357, 1654, 1882, 3798, 2069, 2070, 1955, 2643, 653, 1561, 2897, 1760]. **universe** [4330]. **University** [4129, 2147, 4275, 4205, 4256, 4148, 4248, 3769, 4231, 4251, 4258, 4280, 4147, 1198, 4150, 4243, 265, 4145, 4133]. **UNIX** [4232]. **Unknown** [2348, 1219, 791, 39, 1017]. **unleash** [2823]. **unperceivable** [2346]. **Unpredictability** [2471]. **Unpredictable** [1213, 3636, 2464, 1464, 3616]. **unpublished** [3095]. **unreasonable** [4204]. **unrestricted** [2447, 1792, 2848]. **unsigned** [1416]. **Unsupervised** [1801]. **Untersuchung** [2713]. **Untersuchungen** [1062, 1762]. **Untrusted** [3909]. **UNU.RAN** [3356, 3357]. **UNURAN** [2737]. **Unveiling** [4074]. **Up-and-Down** [575]. **update** [1993]. **updates** [3857]. **Upper** [1518, 2301, 2055, 2357]. **URAND** [653]. **urandom** [2839]. **URNG** [2805]. **US$24.95** [993]. **USA** [4278, 4283, 4293, 4246, 4222, 4255, 4299, 4264, 4268, 4296, 4231, 4258, 4220, 4234, 4311, 4320, 4327, 4334, 4188, 4285, 4155, 4267, 4318, 4333, 4287, 4265, 4269, 4218, 4232, 4233, 4259]. **usable** [3557, 1755]. **Usage** [3871, 1999]. **Use** [3922, 2597, 2155, 127, 4005, 3591, 3214, 157, 1303, 2923, 2029, 2255, 1424, 1114, 3935, 1365, 961, 1240, 1452, 449, 450, 656, 159, 456, 2001, 46, 3635, 577, 1894, 20, 3089, 3570]. **Used** [2155, 2869, 2625, 3911, 2841, 2368, 3987, 3518, 100]. **useful** [4128]. **Usenix** [4259]. **User** [2638, 2736, 3126, 4026, 2206, 2489, 2842]. **user-based** [2489]. **user-level** [2842]. **User-Transparent** [4026]. **users** [3060]. **Uses** [2787, 1401, 2886]. **Using** [2592, 1902, 3993, 3297, 3015, 3799, 3017, 3927, 1500, 2036, 1501, 3845, 3560, 3563, 587, 3185, 2602, 1219, 2944, 1430, 2366, 272, 1521, 3579, 3583, 2461, 354, 514, 917, 778, 2296, 867, 3210, 1636, 3695, 3696, 3216, 2729, 2965, 829, 2469, 1013, 3048, 3232, 2814, 2976, 3703, 2817, 2093, 2094, 2902, 4099, 795, 3909, 3828, 3717, 1567, 1659, 3476, 3715, 658, 2103, 1773, 4337, 3486, 839, 664, 4018, 2414, 3258, 2992, 2993, 2122, 1203, 2125, 2011, 4021, 3269, 2331, 2423, 3151, 3515, 3524, 1801, 2143, 3403, 3404,

1490, 1686, 4108, 1327, 2690, 2858, 2148, 3959, 1028, 3093, 3660]. **using** [2348, 3021, 3097, 1706, 722, 3187, 3188, 3748, 1919, 2168, 3571, 474, 1162, 3438, 1290, 1234, 2619, 2719, 4007, 3589, 3042, 1446, 1009, 1242, 4034, 2964, 3219, 3121, 2968, 3458, 2972, 3055, 3606, 3612, 4016, 4124, 2211, 3613, 3614, 2743, 1985, 796, 3712, 1088, 147, 2829, 1256, 3255, 3947, 2570, 3138, 3491, 260, 623, 2123, 3835, 4118, 3268, 208, 4041, 3791, 3953, 1892, 2507, 2508, 4104, 3405]. **Utah** [4232]. **utilisant** [2570]. **utility** [215]. **utilizing** [3363]. **UWB** [3434].

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1546, 1640, 1247, 1465, 3603, 1186, 3357, 609, 4056, 845, 982, 984, 985, 1022, 1203, 2997, 1316, 1023, 3883, 3160, 3884, 3798, 2935, 1063, 2353, 3023, 1426, 2049, 1717, 2703, 3433, 1033, 1114, 1224, 1429, 1719, 1720, 1815, 2270, 3317, 3807, 4047, 2872, 1078, 2535, 2807, 3938, 3123, 3350, 1853, 2813, 3356, 3468, 1871, 1314, 981, 1261]. **Variates** [544, 1109, 1110, 1284, 1222, 1226, 3693, 733, 2088, 1656, 795, 1388, 2234, 884, 983, 2331, 1681, 716, 1490, 1686, 1406, 1899, 1026, 2593, 1906, 3665, 911, 679, 856, 857, 1341, 1513, 1111, 1113, 3687, 1952, 1839, 1953, 2193, 3817, 3692, 1182, 1547, 781, 2644, 3605, 789, 2554, 832, 1865, 1047, 564, 565, 1396, 568, 620, 1880, 705, 3873, 885, 986, 1590, 2012, 751, 3985, 1205, 1321, 2138, 2247, 2433, 3736, 543, 597, 641]. **Variation** [246, 3379, 3312, 3507]. **Variational** [1315]. **Variations** [2610]. **Various** [704, 2940, 789, 100]. **Varying** [1580, 3107]. **Vavilov** [2600, 712, 1145]. **VAX** [1347]. **VAX-11** [1347]. **Vector** [1493, 3993, 4044, 402, 2351, 3849, 2105, 2224, 1583, 3959, 2936, 1432, 2181, 1537, 1538, 247, 1463, 1649, 739, 3829, 3865, 1257, 1661, 1769, 1770, 1990, 2106, 3718, 666]. **Vectorial** [3664]. **Vectorized** [3983, 1216, 1522, 1399]. **Vectors** [545, 2262, 2601, 723, 2361, 518, 287, 1054, 3506, 1325, 2439, 584, 2160, 3805, 1811, 2362, 1169, 1238, 1294, 1362, 2305, 1572, 2565, 2916, 626, 2008, 2768]. **Vegas** [4226, 4267, 4318, 4231]. **Verifiability** [3999]. **Verifiable** [3887, 3190]. **Verification** [2878]. **Verified** [2440, 3955]. **Vermont** [4238]. **Versatile** [521]. **Verschlüsselungsabbildungen** [1039]. **Version** [3738, 1029, 1127, 3356, 3357, 2696, 3803, 3126, 3352, 3833]. **Versions** [2623, 935, 1053, 2941, 2087, 743]. **Versus** [736, 2511]. **verteilten** [1899]. **Verteilung** [669, 625]. **Vertical** [2303]. **Verwerfung** [1899]. **Very** [1204, 1324, 1363, 1012, 1983, 2099, 2409, 671]. **Very-Long-Cycle** [1324]. **very-long-period** [1983]. **VI** [2562]. **Via** [1988, 1899, 2159, 2520, 3099, 3432, 1507, 2266, 3195, 2171, 3321, 2450, 2527, 3970, 3585, 4006, 4073, 3338, 3764, 3453, 2550, 3056, 4037, 3358, 1048, 2323, 3068, 3260, 982, 2767, 2921, 1681, 2138, 3532, 3534]. **VIBNN** [3964]. **Victoria** [4203, 4298]. **Vienna** [4201, 4243]. **View** [1555, 1189, 2019, 779, 4154]. **Vigenère** [1922]. **vignettes** [3285]. **Virginia** [4254, 4287, 4210, 4185, 4163]. **Virtual** [3493]. **visit** [2243]. **Vista** [4225]. **Visual** [3139]. **VLSI** [4317, 1446, 3861, 1670, 2018, 1677, 1601]. **VMPC** [3875]. **vol** [993]. **Vol.** [657]. **volatility** [3775]. **Voltage** [3379]. **Volume** [4138]. **volumes** [3874]. **Voting** [3887]. **vs** [911, 2831, 164]. **vulnerabilities** [3493]. **vychislitelnykh** [352].

**W** [2160, 3208, 3306]. **W.** [499, 236, 3023]. **WA** [4324, 1555, 1970]. **Wadsworth** [262]. **Wahrscheinlichkeit** [571]. **Wahrscheinlichkeitstheorie** [571]. **wake** [3363]. **wake-up** [3363]. **Walk** [2419, 2434, 195, 3862, 2223, 2327, 2332, 2333, 2422, 3988]. **Walking** [3740]. **Walks** [1281, 2110, 2912, 2267, 2618, 1833, 1949, 2964]. **Wall** [3862]. **Wallace** [3178, 2972]. **Walsh** [1946, 2125, 1319, 852]. **Walsh-spectral** [1319]. **Walt** [4225]. **Wang** [3969, 2908]. **Warbler** [3906]. **warning**

[1365, 2908]. **Warp** [1634]. **was** [3702]. **Washing** [2787]. **Washington** [4187, 4212, 4142, 4285, 4223, 4191, 4250, 3733, 4175]. **Watson** [956, 1118]. **wave** [161]. **Waveforms** [550]. **Waveguide** [3810]. **wavelet** [4086]. **Waverly** [4240]. **Way** [3739, 2787, 3758, 3048, 1647, 1671, 3658, 2439, 2466, 3449, 1449, 1638, 3121, 1188, 1302, 3881]. **ways** [442]. **WCC** [4292]. **WCDMA** [3340]. **Weak** [3441, 865, 3689, 3057, 2652, 2827, 2119, 2137, 4066, 1339, 3401]. **Weakly** [1655, 1900]. **Weakness** [2718]. **Web** [2787, 3261, 2679]. **webcam** [2823]. **Wednesday** [4285]. **Weibull** [3574, 2100, 705]. **Weierstrass** [3408]. **weighing** [82]. **Weight** [4064, 304, 2745, 1609, 2083, 2242]. **Weighted** [3025, 3045, 748, 3144, 3267, 3378, 719, 2377, 3596, 2198, 3145, 3266, 3632]. **weights** [3632, 3395]. **Well** [2378, 1840, 2363]. **well-known** [2363]. **Weyl** [1613, 4110, 2421, 2582, 2847, 2507]. **WG** [4316]. **WGNG** [2874]. **wheel** [1837]. **Where** [3966]. **Which** [2597, 1202, 219, 371]. **while** [1121, 3372]. **Whit** [3702]. **White** [4184, 1370, 629, 2691, 2874, 2298]. **whitens** [3311]. **Who** [730]. **whole** [1330]. **Whose** [4057, 432, 1355, 1180, 166]. **Wichmann** [3245, 1813]. **wide** [2256]. **wide-area** [2256]. **Widespread** [3689]. **Width** [88]. **Wigderson** [4111]. **Wiley** [993]. **Williamson** [2160]. **Window** [613]. **Windows** [3104, 3105, 3320]. **Windsor** [4219]. **Winter** [4181, 4227, 4240, 4193, 4236, 4264, 4191, 4250, 4202, 4154, 4269, 4163, 4165, 4210, 4225, 4175]. **Wireless** [3031, 3476, 3251, 3211, 3609, 3858]. **Wisconsin** [4229]. **Wisdom** [2787]. **wise** [3991, 1492, 1331, 350, 2171, 1965]. **within** [2257, 1714, 2066, 495]. **Without** [3040, 1194, 1604, 2171, 1623, 1744, 1047, 2505, 2677, 3879]. **WMC** [1497]. **WMC-distributed** [1497]. **Worcester** [4268]. **word** [547, 601, 602, 663]. **word-length** [601, 602, 663]. **words** [3885, 3761, 2762, 3260]. **Work** [1286, 4147]. **Works** [4138]. **Workshop** [4167, 4177, 4308, 4256, 4268, 4207, 4239, 4152, 4244, 4292, 4294, 4228, 4262]. **workstation** [1697]. **World** [4328, 3334, 4075, 3249, 4225, 3904]. **WPA** [3917]. **WPA-TKIP** [3917]. **write** [4090]. **Writings** [4128]. **wrong** [3702]. **WSC'01** [4269]. **Wyndham** [4264].

**X** [1399]. **X-MP** [1399]. **X9.31** [2965]. **Xilinx** [4090]. **Xing** [2760]. **XOR** [2036, 4082, 2505, 2677]. **xorgens** [2696]. **xoroshiro** [3962]. **xoroshiro128** [4094, 4015]. **xors** [3021, 3097]. **Xorshift** [4027, 2865, 2821, 2987, 3918, 3954]. **xorshift1024** [4015]. **Xorshift1024*** [4015]. **xorshift128** [4074, 4015]. **xoshiro** [3962]. **XP** [2747]. **XSadd** [3833]. **XTEA** [2941, 2881, 2752, 2431]. **xviii** [3733]. **XXIV** [70].

**Yarrow** [2418, 2544, 2753]. **Yarrow-160** [2544]. **year** [2519]. **Years** [3159, 2099]. **yesterday** [4178]. **York** [4176, 4327, 993, 170, 4184, 4197, 4265]. **Yorker** [4137]. **You're** [4055]. **Yuen** [3217].

**Zahienfolgen** [642]. **Zahlen** [5, 3011]. **Zakopane** [4244]. **Zaman** [2342]. **Zehnder** [3188]. **Zémor** [3257]. **Zero** [1420, 3193, 2109, 60, 3602, 2768, 1205].

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$P_n(\lambda)$ test for "determining whether a sample of size $n$, supposed to have been drawn at random from a parent population having a known probability integral has probably been drawn at random." See [28] for its first use on random numbers from a uniform distribution.

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