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

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01 May 2024
Version 1.390

Title word cross-reference

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

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

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

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

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

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

3832, 2568, 1266, 1600, 1898, 3360, 1412, 718, 545, 675, 1058, 3123, 3241, 3492].
random
[3717, 3718, 3047, 1901, 1902, 3126, 1268, 3127, 37, 3898, 3757, 214, 215, 3494, 1903, 2145, 546, 676, 3247, 677, 1696, 1271, 1603, 2023, 2238, 3129, 2024, 2146, 2239, 2326, 2490, 2973, 1023, 404, 3248, 3249, 3495, 1329, 1413, 1493, 1414, 3250, 3496, 1331, 217, 297, 1332, 1497, 1498, 1797, 3251, 3367, 989, 1415, 1495, 3497, 1604, 1605, 1702, 1703, 2668, 2750, 2829, 3668, 3834, 1334, 3499, 990, 991, 1024, 1059, 1101, 1103, 1104, 1213, 1704, 1799, 1912, 633, 992, 438, 549, 585, 680, 43, 3255, 1608, 3051, 1500, 3256, 3369, 406, 3669, 994, 1801, 113, 3371].
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