

# A Complete Bibliography of Publications in *Algorithmica*

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## Title word cross-reference

**#BIS** [2846]. **#CSP** [1871, 2728]. **#NC** [1860]. **#SAT** [2334, 3178]. **#W** [3150].

**#W**[1] [2989].  $(1 + (\lambda, \lambda))$  [3197, 2610].  $(1 + 1)$  [2607, 3559, 1636, 1637, 2320, 2205, 2735].  $(1 + \epsilon)$  [1067].  $(1 + \lambda)$  [2731, 2458].  $(1, \epsilon)$  [2630].  $(2, k)$  [3083].  $(2 - c\frac{1}{\sqrt{N}})$  [1357].  $(2P_4, C_5)$  [3194].  $(2t + 1)$  [799].  $(3/2 + \epsilon)$  [3381].  $(A + B)$  [2642].  $(A, \ell)$  [3168].  $(H_1, H_2)$  [3033].  $(k, n - k)$  [2699].  $(k, p)$  [3383].  $(k - 1)$  [1177].  $(\mu + \lambda)$  [3041].  $(P_r + P_s)$  [2934].  $(s, t)$  [446].  $(sP_1 + P_5)$  [2867].  $(t, k)$  [2513]. 0 [2383, 895].  $\{0, \frac{1}{2}\}$  [1473]. 1 [2383, 2799, 1599, 2287, 3126, 895, 2506, 2076, 2543, 3051, 1155, 2694, 1088, 2435, 2966, 2200, 1951, 2394, 1536, 1873, 260, 1451].  $1 + \epsilon$  [2580].  $1 + \phi$  [1931].  $11/6$  [280].  $13/9$  [1451]. 2 [2618, 1763, 1277, 2086, 2028, 2196, 1997, 332, 1019, 474, 237, 2088, 1765, 2548, 2390, 414, 1909, 2401, 260, 2403, 2190, 2373]. 2.5 [1825].  $25/17$  [2020].  $2^k$  [2740].  $2^n$  [2354, 3288, 1374, 2212, 2086, 2017].  $2n - 2$  [417]. 3

[2673, 3000, 476, 1255, 1257, 1914, 3012, 1527, 2549, 1304, 2435, 2619, 474, 2010, 1575, 770, 1602, 1449, 2398, 2251, 281, 1262, 1753, 1866, 1004, 1081, 2266].  
 $3 + \Omega(1)$  [2999].  $35/44$  [1627]. 4 [2301, 2775, 589, 1730, 1828, 148, 659]. 6 [1486]. 7 [1155].  $7/5$  [1873].  $[0, \frac{1}{2}]$  [164].  $^1$  [1860].  $^c$  [1871].  $K$  [3086].  $\alpha$  [627].  
 $\alpha_i$  [3482].  $b$  [3540, 1865, 2216, 2547, 1920, 3529, 2718, 2325].  $C$  [517].  $D$  [3054, 2777, 2327, 688, 2783, 3428, 1944, 207, 392, 2082, 196].  $D^2$  [2192, 2077].  
 $\Delta$  [1927, 2701, 3448].  $e/(e-1)$  [1011].  $\ell_2^2$  [1519].  $\ell_\infty$  [2914].  $\ell_p$  [3383, 3236].  $\epsilon$  [820].  $\exp[\Omega(n^{1/3}/2 \ln n)]$  [895].  $f$  [1843, 3384, 3385, 2802, 3208, 763].  $F^+ \Pi_1$  [1824].  $g$  [763].  $\text{GF}(p)$  [1].  $H$  [3242, 2993, 2142, 3116, 2440, 3309, 2996, 2088, 3386, 3367].  $K$  [2327, 760, 2754, 1140, 2835, 771, 1141, 3136, 3496, 1904, 2743, 2708, 2978, 2112, 2777, 1065, 1916, 3301, 3418, 241, 1051, 3345, 215, 1619, 888, 769, 2457, 3524, 1953, 2324, 1703, 812, 2744, 2940, 2585, 1766, 346, 3555, 1208, 3118, 635, 527, 530, 765, 1397, 1028, 1232, 1117, 1119, 2410, 1525, 1177, 2077, 3120, 770, 899, 1460, 3158, 3343, 2820, 2803, 3387, 2187, 2185, 2541, 1449, 2129, 1470, 2643, 2450, 229, 2653, 2257, 3193, 3268, 2681, 212, 177, 784, 261, 917, 1517, 182, 1301, 534, 116, 1641, 98, 1776, 344, 2448, 724, 763, 196].  $l$  [45, 1177].  
 $L(2, 1)$  [1949, 1624].  $L(p, q)$  [3392].  $L_1$  [2797, 87, 992, 1662, 235, 163].  $L_2$  [1662].  $L_\infty$  [1662, 163, 1642].  $L_p$  [208, 813].  $\lambda$  [2611].  $m$  [1537, 1228, 2089, 138, 3193]. **NP** [1859].  $\mathbf{Z}_{p^n}$  [2119].  $\mathcal{H}$  [2515].  $\mathcal{O}^*(\in v)$  [2699].  $\mathcal{U}$  [3131].  $\text{GF}(2)$  [1723].  $n$  [1932, 2410].  $n^\epsilon$  [2580].  $n \times n$  [417].  $O(1)$  [3049, 2907, 2015].  $O(1.89^n)$  [2300].  $O(f)$  [2774].  $O(k^3)$  [346].  $O(\log^2 k)$  [2004].  
 $O(\log k)$  [530].  $O(\log \log n)$  [405].  $O(\log \text{OPT})$  [2596].  $O(\log N)$  [123, 2377].  
 $O(n)$  [468, 2782].  $O(n+m)$  [1779].  $O(n^{1.5})$  [1005].  $O(n^2)$  [414, 2346].  
 $O(n^2 \log n)$  [1272].  $O(n^2 \sqrt{\tau}/\sqrt{\log n})$  [930].  $O(n^3 (\log \log n / \log n)^{5/4})$  [1361].  
 $O(n^3)$  [520].  $O(n^3 / \log n)$  [1323].  $O(n^4)$  [1690, 2118].  $O(ND)$  [14].  $O(n \log n)$  [1055, 2839, 163, 674].  $O(\text{sort}(n))$  [2780].  $O^*(1.357^k)$  [1303].  $O(n\sqrt{\log n})$  [2903, 2902].  $o(n)$  [2814].  $P$  [256, 1537, 3363, 3209, 2701, 126].  $P_4$  [1075].  $P_5$  [2757, 1525, 1034].  $P_6 + rP_3$  [3012].  $P_7$  [2029].  $P_8$  [2436].  $P_k$  [2304].  $P_t$  [1921].  
 $P_t$  [3306, 2723].  $q$  [798, 2258, 3229, 604, 879].  $R$  [1395, 1725, 2929, 126].  $R^*$  [1936].  $R^*$  [2382].  $R^2$  [1623].  $R_t^k$  [553].  $s$  [3163, 3347, 2558, 1788].  $S_d$  [3287].  
 $st$  [3569, 990, 3396, 440].  $T$  [3287, 2161, 3510, 1605, 3163, 2071, 1518, 3347, 2558].  $\Theta(D + \log n)$  [2779].  $\theta_r$  [2596].  $\tilde{O}(m^2 n)$  [1383].  $\tilde{O}(nm)$  [726].  $W$  [3554, 1377].  $X + Y$  [2045].

**-ambitus** [440]. **-analogue** [879]. **-Approximate** [3158, 820, 1067].

**-Approximation**

[3381, 2020, 2548, 2401, 1627, 2596, 2015, 1357, 1927, 530, 280].

**-Arc-Connected** [2978]. **-Ary** [1228]. **-Bend** [2799]. **-Bubble** [3131].

**-Center**

[3136, 3496, 3051, 3418, 3524, 2744, 2940, 2585, 3343, 1536, 2403, 126, 256, 138].

**-Centers** [2701]. **-Chordal** [2187]. **-Chromatic** [1920]. **-Chvátal-Gomory**

[1473]. **-Claw** [3428, 1028]. **-Clique** [3118]. **-Clustering** [2743, 3383, 2190].

**-CNF** [2457, 1916]. **-Colorability** [1525, 2251]. **-Coloring**

[2216, 2547, 1155, 3012, 1602, 2440, 148]. **-Colorings** [763]. **-Colouring** [1866]. **-Community** [2618]. **-Comparability** [1075]. **-Competitive** [2814, 1873, 1451, 2004, 346, 2377]. **-computer** [476]. **-Connected** [1257, 1763, 2010, 2185, 3193, 769, 770, 229]. **-Connectivity** [3083, 1753, 474]. **-covering** [261]. **-Covers** [1208]. **-CSP** [2196]. **-CUT** [527, 760]. **-cuts** [446]. **-Cycle** [2754]. **-d** [2673, 1449]. **-Diagnosis** [2513]. **-Diameter** [3524]. **-Dimensional** [1081, 3054, 688, 182, 116]. **-dimensions** [392]. **-Disjoint** [2086]. **-Dominating** [3193, 126]. **-EA** [2735]. **-Edge** [3208, 2718]. **-Edge-Connected** [1177]. **-Edge-Connectivity** [1019, 2398, 589]. **-Edge-Labeling** [3392]. **-enclosing** [1117]. **-ES** [1637]. **-extremal** [212]. **-Factor** [2802]. **-Factors** [3385, 3384]. **-Faulty** [3363]. **-Fitting** [1642]. **-Fixed-Endpoint** [1599]. **-Free** [2867, 3306, 2723, 2757, 3033, 2993, 2029, 2436, 2142, 2304, 3309, 1921, 1525, 3194, 2934, 1034, 3386, 3367, 3242, 2515]. **-grams** [604]. **-Graphs** [3569, 3396, 3287, 2996, 990]. **-hard** [1859, 1377]. **-Hardness** [3150, 2989]. **-Hitting** [1527, 2082]. **-Hop** [3555]. **-Horn** [2258]. **-Hub** [3209]. **-hurdle** [1619]. **-Hyperbolic** [2701]. **-IBDD** [2653]. **-in-a-Path** [1766]. **-in-Degree** [2694]. **-Information** [627]. **-Internal** [2448]. **-Interval** [3510, 1944]. **-Joins** [2161, 2088]. **-Kernels** [3263]. **-Labeling** [1949, 1624]. **-Layer** [2028]. **-line** [1140]. **-Local** [1873, 1451]. **-LWE** [2541]. **-Manifold** [1914]. **-Map** [2775]. **-Matching** [3540, 3529]. **-Matchings** [1865, 3208]. **-Max-Cut** [2699]. **-Means** [2077, 1119]. **-Median** [2743, 2076]. **-Medians** [1208]. **-Metric** [3482]. **-Modular** [2088]. **-Nearest-Neighbor** [2129, 1301]. **-Nested** [1951]. **-Nets** [2929]. **-Norm** [3236]. **-of** [2410]. **-Opt** [1997]. **-Optimal** [3448]. **-Outerplanar** [1703]. **-Partitioning** [3345]. **-Party** [1004]. **-Path** [3168, 2642]. **-Planar** [2287, 3126, 2301, 2506, 2543]. **-Planarity** [2200]. **-Plane** [1155]. **-Plex** [1788]. **-Private** [1605]. **-Prize-Collecting** [3268]. **-Ratings** [1537]. **-Recursive** [3229]. **-Regular** [1730, 1828]. **-relative** [241]. **-Resilient** [1518]. **-Restricted** [2630]. **-Sampling** [2077]. **-SAT** [1725, 1277, 237, 917]. **-satisfiability** [332]. **-Search** [1470]. **-selection** [45]. **-Sensitivity** [1843]. **-Separator** [3554]. **-series** [798]. **-Server** [2777, 346, 344]. **-Sided** [3301, 1088]. **-Sink** [2835]. **-Space** [2966, 281, 517, 207]. **-Spanner** [2071]. **-splittable** [1141]. **-Steiner** [1397, 1517, 2112]. **-Stroll** [1904]. **-Structures** [414]. **-Subgraph** [2257, 812]. **-terminal** [1051, 215, 635]. **-th** [2089]. **-Time** [2699, 405]. **-Topological** [3116]. **-Tour** [1904]. **-Tours** [2643]. **-Track** [1944]. **-Transitive** [1075]. **-Transmitters** [2708]. **-Tree** [2448, 2192, 765, 771]. **-Trees** [3000, 2324, 770, 1395, 763, 888, 769, 770, 724]. **-Vertex-Connected** [1177]. **-Vertex-Connectivity** [1776]. **-Way** [1641, 1575, 899]. **-wheel** [1486]. **-Wise** [1460]. **-Xor** [2373].

**1-Extendability** [3439]. **1-Restricted** [3437]. **1.5-Approximation** [2242]. **1.5-Dimensional** [1668]. **10th** [1101]. **13th** [2983]. **14th** [3088, 3267]. **16th** [3254, 3388]. **17th** [3336]. **18** [957]. **1990** [3575].

**2** [1617, 768, 313]. **2-Approximation** [3268]. **2-Clubs** [3313]. **2-Connected** [3098]. **2-Edge-Connected** [768]. **2-Intersection** [3302]. **2-Layer** [1192]. **2-Matchings** [3437]. **2-Trees** [3318]. **2001i** [921]. **2003** [1101]. **2007** [1445]. **2008** [1544, 1731]. **2011** [1958]. **2012** [2075]. **2014** [2307, 2306, 2302, 2369]. **2017** [2855, 2874]. **2020** [3253]. **2021** [3328, 3480, 3297]. **2022** [3435, 3388]. **20th** [1101]. **21** [754]. **28th** [3157]. **29** [1068, 921]. **2SAT** [2583].

**3** [1965]. **3-Coloring** [3194]. **3-Colouring** [3306]. **3-Hypergraphs** [3302]. **3-Leaf** [3380]. **3-SAT** [1965]. **3-Space** [3542]. **31st** [3253]. **32nd** [3297]. **3D** [1046]. **3LIN** [1957]. **3SUM** [1340, 2404, 2248]. **3XOR** [2248].

**4** [786]. **4-Map** [1195].

**5** [168]. **5th** [1101].

**60th** [2645, 2644].

**78** [2623].

**90k** [786]. **91g** [168]. **98a** [957]. **99a** [754].

**A14** [2323]. **abelian** [3370, 1972]. **Above** [1725, 2186, 3501, 1954, 2089, 2367, 1735]. **Above-Guarantee** [1735]. **Absence** [2109, 2950]. **Absolute** [1591]. **Abstract** [3420, 2794, 2553]. **Accelerated** [71]. **Acceleration** [1894]. **Acceptance** [3258]. **Access** [961, 1975, 1215, 455, 385, 60, 1297, 101, 982]. **Accessing** [897]. **Account** [2604]. **Accumulators** [2265]. **Accuracy** [1967, 1310, 626]. **accurate** [1136]. **Achievable** [952]. **Achieve** [2829]. **Acid** [717]. **Acids** [714]. **Acknowledgment** [1874, 1011]. **Action** [1972]. **Actions** [62]. **Active** [2169, 2094, 3069, 2408, 1907]. **Active-Learning** [3069]. **Activity** [3317]. **Acyclic** [916, 572, 3352, 1966, 1075, 1390, 2917, 1956, 529]. **Ad** [2584, 1309, 2003, 1306]. **Ad-Hoc** [2584, 2003]. **Adaptation** [628]. **Adaptive** [3162, 1325, 614, 1270, 776, 1890, 1218, 1454, 1152, 657, 857, 449, 806, 1980, 3040]. **Adaptivity** [1604]. **addendum** [283]. **Adders** [2397]. **Addition** [155]. **Additive** [3153, 1777, 3383, 779, 2319, 2974, 2891, 177]. **Additive-Error** [3383]. **Addressing** [1422]. **Adjacency** [1973]. **Adjacent** [181]. **Adjustable** [2162]. **Adjusting** [2610, 2612, 2731, 3111, 7, 3200, 3429]. **ADM** [1811]. **Administration** [651]. **Admission** [861, 1106]. **ADMs** [1292]. **Advance** [1106]. **Advances** [1503]. **Advantage** [2069]. **Adversarial** [3522, 2980, 1154]. **Adversaries** [270, 3472]. **Adversary** [2422, 3182]. **Advertising** [2705, 1908, 1612]. **Advice** [2080, 2256, 3032, 2777, 1215, 3099, 1681]. **Advisor** [1898]. **Affine** [437]. **Affix** [1023]. **after** [885, 3075]. **Against** [2078, 2537, 3516, 971]. **Agent** [3317]. **Agents** [2243, 3466]. **Agglomerative** [2041, 3144]. **Aggregate**

[2438, 1310]. **Aggregated** [1359]. **Aggregates** [2214]. **Aggregation** [1537, 1147]. **Agreement** [1770, 1331, 2366, 1276, 972, 1625, 1161, 2276]. **AIMD** [1152]. **Airy** [875]. **Algebra** [719, 133]. **Algebraic** [369, 3398, 91, 179, 552, 881, 903, 1453, 3483, 96, 3150]. **Algebras** [2726]. **Algorithm** [2449, 42, 1475, 1079, 3467, 639, 150, 506, 1199, 411, 2165, 25, 2814, 3437, 95, 265, 425, 815, 667, 912, 930, 1549, 1737, 2282, 2822, 3178, 2004, 2429, 1823, 1003, 2507, 2741, 895, 1606, 2714, 2878, 2928, 1750, 927, 67, 2076, 2880, 1814, 1455, 3547, 690, 1649, 620, 1287, 2794, 958, 1278, 2451, 334, 775, 242, 915, 1496, 2298, 2839, 852, 549, 1914, 2587, 1009, 1825, 2764, 2061, 1205, 65, 2370, 793, 1155, 1174, 1452, 1692, 1726, 1895, 2334, 3204, 1642, 1751, 1201, 44, 1493, 2434, 119, 127, 413, 193, 1168, 1924, 109, 950, 492, 2615, 1807, 1587]. **Algorithm** [1854, 1244, 1570, 2087, 1744, 2733, 564, 2117, 520, 691, 1660, 293, 2610, 2731, 3110, 2071, 1200, 1808, 1116, 1088, 39, 86, 3284, 2796, 1209, 1779, 1997, 2245, 2118, 346, 1573, 40, 3385, 2015, 2478, 2806, 102, 831, 343, 2191, 3086, 1595, 2966, 868, 226, 331, 401, 2524, 1361, 583, 1949, 400, 3400, 90, 991, 1264, 1588, 1797, 2200, 1358, 2858, 2995, 1372, 3135, 646, 1598, 87, 717, 3589, 1765, 1357, 2020, 329, 1513, 1636, 1059, 1224, 311, 482, 1985, 2985, 2490, 423, 1716, 755, 1454, 1383, 2840, 2801, 538, 2711, 257, 1736, 3427, 1576, 2188, 2213, 26, 1511, 1927]. **Algorithm** [846, 1645, 2185, 2530, 417, 1282, 1362, 3172, 3533, 1938, 1698, 2181, 1414, 2242, 2900, 115, 3068, 3278, 1965, 158, 1089, 2925, 554, 414, 194, 472, 650, 1465, 2427, 1158, 573, 227, 441, 2716, 531, 186, 3057, 2912, 14, 365, 726, 1403, 2653, 2998, 851, 1436, 3553, 3198, 122, 1524, 101, 806, 993, 680, 2346, 545, 113, 268, 525, 2681, 496, 2377, 2418, 2699, 348, 163, 51, 2401, 1873, 2442, 2808, 419, 130, 1314, 634, 22, 136, 1489, 654, 21, 1578, 1504, 2403, 2255, 2732, 162, 140, 430, 1900, 1641, 1789, 2266, 1379, 1005, 674, 1743, 1027, 1447, 1650, 33]. **Algorithm** [1451, 763, 2205, 1222, 3170, 168, 29, 267, 440, 643, 530, 786, 138, 94, 313, 229, 79, 957, 212, 917, 473, 845, 280, 3042]. **Algorithmic** [2218, 916, 3157, 2618, 2195, 1594, 1283, 855, 99, 1848, 2694, 1432, 1249, 3017, 1845, 2532, 2729, 3523, 2119, 2574, 3083, 1846, 2455, 3586, 2603, 1515, 1274, 798]. **Algorithmica** [168, 1068, 786, 313, 957, 754, 921, 3157]. **Algorithmics** [359, 2766, 1527, 1035, 3594]. **Algorithms** [1819, 3191, 906, 1197, 369, 934, 911, 1139, 1800, 2159, 3234, 3413, 3355, 1959, 948, 541, 612, 1558, 2705, 3065, 3540, 579, 3298, 2570, 189, 602, 1450, 490, 1713, 832, 1514, 433, 1540, 735, 961, 900, 1105, 2830, 2749, 2909, 3597, 3328, 3201, 453, 1235, 1685, 2551, 3152, 2616, 287, 80, 1529, 819, 813, 861, 1165, 1865, 274, 2330, 897, 2723, 1738, 925, 3554, 2752, 448, 2169, 3496, 3408, 501, 2344, 2342, 1643, 3497, 821, 558, 1340, 2202, 2495, 3277, 1003, 1904, 962, 2875, 2297, 2743, 1678, 3361, 2421, 881, 614, 2639, 319, 315, 1214, 266]. **Algorithms** [1324, 1772, 1861, 317, 733, 937, 1482, 505, 3500, 1884, 3396, 1378, 1939, 1521, 1661, 818, 1733, 2550, 741, 3363, 2848, 228, 408, 3211, 3233, 3519, 1761, 2197, 3207, 1178, 1085, 1885, 2947, 389, 2773, 1691, 1186, 1029, 1732, 3280, 3350, 1237, 2131, 378, 2104, 1706, 2097, 762, 1269, 322, 450, 572, 783, 1092, 1341, 1448,

1406, 1446, 1902, 2048, 2254, 2475, 2861, 3133, 3493, 455, 1989, 3195, 1863, 2031, 2262, 271, 333, 200, 1330, 3511, 2923, 2981, 360, 716, 2800, 135, 1438, 2519, 1571, 1619, 190, 185, 933, 1006, 3504, 1122, 1276, 660, 1586, 792, 777, 2457, 3415].

**Algorithms**

[3515, 426, 427, 1603, 2125, 1163, 1419, 2701, 829, 3272, 890, 2034, 3331, 3289, 2648, 2139, 3429, 2128, 3285, 1375, 2665, 2585, 92, 1696, 2417, 2885, 1109, 3297, 1381, 1709, 1834, 2589, 3078, 2470, 223, 1799, 598, 2746, 3030, 632, 2677, 225, 326, 1019, 1069, 1426, 3358, 524, 3253, 2379, 173, 2936, 2946, 2152, 239, 406, 2809, 1191, 3062, 3344, 3499, 3460, 120, 785, 817, 1337, 3468, 1022, 1086, 3250, 1289, 2660, 1694, 595, 1294, 43, 1376, 765, 2769, 794, 760, 2879, 767, 1840, 2351, 521, 519, 3441, 2755, 3506, 1058, 1111, 1624, 3336, 1625, 645, 1590].

**Algorithms**

[2627, 220, 294, 2782, 2791, 2972, 2905, 3035, 3451, 3529, 1978, 3294, 3510, 954, 1531, 2382, 1359, 2509, 128, 324, 1996, 494, 3282, 731, 2001, 1346, 2157, 926, 47, 345, 1134, 1639, 1810, 939, 375, 381, 3371, 2053, 1815, 587, 3343, 1648, 3175, 2145, 1080, 2332, 932, 1473, 1693, 1913, 3245, 121, 2817, 2963, 1584, 1947, 3321, 1407, 2405, 3115, 3425, 3490, 685, 60, 3596, 894, 2424, 2894, 1338, 2223, 693, 1535, 2412, 416, 2460, 1470, 480, 231, 2671, 1444, 2063, 2652, 1396, 2409, 584, 137, 2465, 2011, 112, 11, 2059, 2251, 565, 2706, 3348, 1370, 486, 2656, 551].

**Algorithms**

[1315, 347, 1499, 2738, 445, 1919, 1075, 3507, 3095, 2810, 1781, 2754, 666, 2583, 276, 2793, 330, 1307, 638, 796, 314, 3388, 3200, 233, 947, 1377, 1910, 863, 1532, 204, 316, 93, 2174, 807, 797, 628, 759, 923, 203, 3119, 2567, 1670, 32, 2737, 2961, 3271, 1394, 1633, 2761, 3039, 743, 749, 3113, 110, 1104, 592, 431, 739, 600, 289, 335, 1968, 736, 1491, 1328, 1969, 353, 354, 477, 1354, 3568, 1957, 234, 368, 2614, 2276, 2247, 2168, 181, 2190, 3457, 1074, 1505, 588, 2448, 529, 2600, 2558, 2957, 956, 2815, 1221, 973, 1872, 1653, 1140, 3580, 3584].

**algorithms**

[3588, 3592, 3595, 771, 990, 1030, 133, 1033, 3093, 1051, 202, 769, 527, 1117, 126, 148, 3590, 3598, 3591, 1101, 3587, 754, 3579, 3581, 3583, 3576, 2294, 2093, 1647].

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