AA-tree

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Группа 11-801

Краткая биографическая справка

AA-Tree является формой сбалансированного дерева, используется для эффективного хранения и извлечения упорядоченных данных. Название получили в честь Арне Андерссона, который изобрел их в 1993 году.



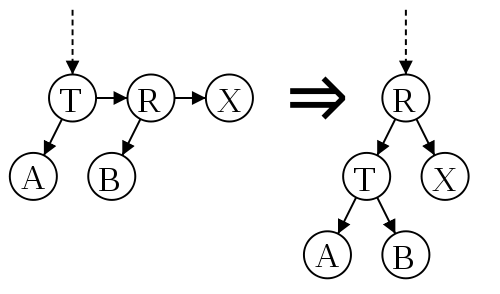
Основной принцип устройства и особенности

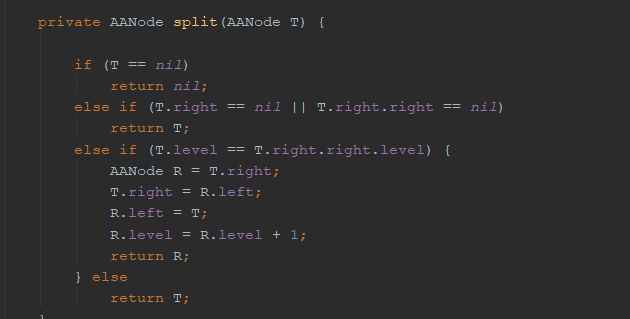
AA-tree представляет из себя структуру данных, практически идентичную красно-черному дерева за одной особенностью. Вместо окрашивание вершин в черные и красные цвета здесь используется понятие уровня вершины.

Также в отличие от красно-черных деревьев, к одной вершине можно присоединить вершину только того же уровня, только одну и только справа (другими словами, красные вершины могут быть добавлены только в качестве правого ребенка). На картинке ниже представлен пример красно-чёрного дерева. Это сделано с целью упрощения балансировки элементов в древовидной структуре. Для балансировки применяются 2 операции : skew и split.

split

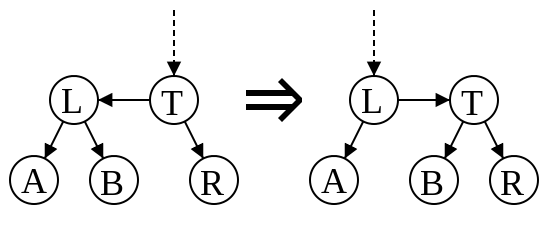
Устранение двух последовательных правых горизонтальных ребер. Делаем левое вращение и увеличиваем уровень, чтобы заменить поддерево, содержащее две или более последовательных правильных горизонтальных связи, на вершину, содержащую два поддерева с меньшим уровнем.

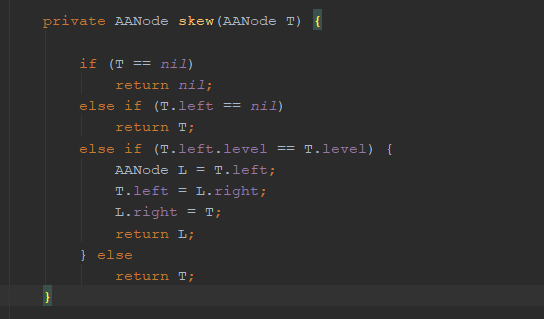




Skew

устранение левого горизонтального ребра. Делаем правое вращение, чтобы заменить поддерево, содержащее левую горизонтальную связь, на поддерево, содержащее разрешенную правую горизонтальную связь.





Задача

Перед некоторой фирмой по производству репсовых лент стоит задача оптимизации производства: при производстве лент необходимо учесть,чтобы разница между заготовкой(заготовки разной длины) и производимой лентой была минимальной.

В задаче используется структура данных AA-tree.Размеры заготовок(целые числа) хранятся в поле element класса AANode. При нахождении необходимой заготовки,заменить ее на разность заготовки и ленты.Изначальную вершину удалить из дерева.

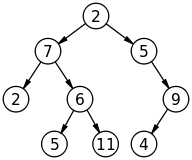
Оценка сложности

Поскольку бинарное дерево поиска с n узлами имеет минимум O (log n) уровней, для поиска конкретного узла требуется как минимум O (log n) сравнений

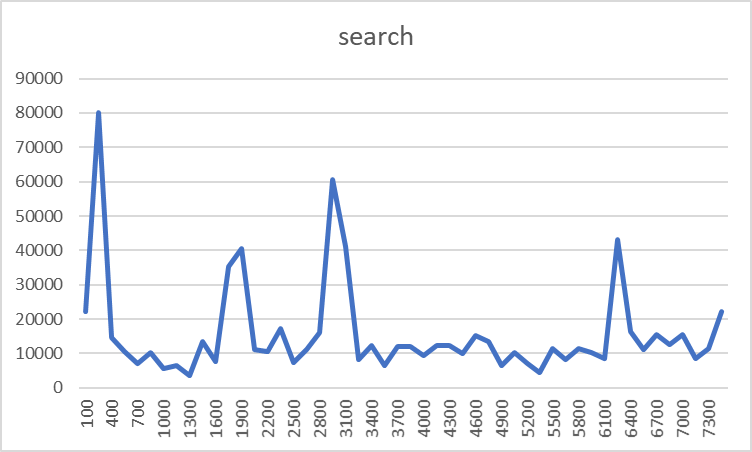
То есть на каждом этапе мы имеем выбор из двух дочерних элементов.Следовательно,ассимптотическая сложность logn

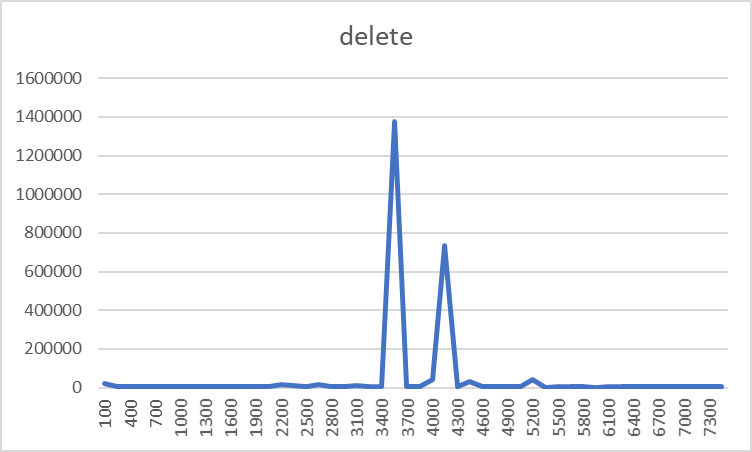
Для вставки элемента 13 мы должны пройти элементы 2-5-9 (12 правый дочерний для 9).Следовательно,худшая сложность O (log n).

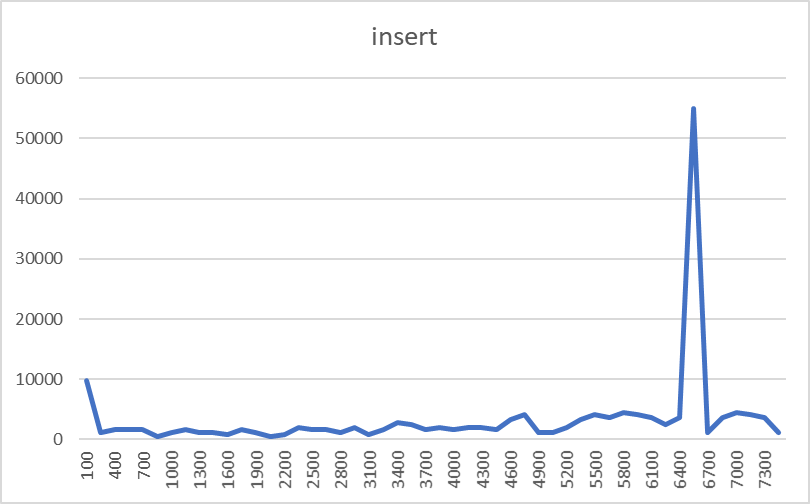
Для удаление элемента 5,мы должны пройти вершины 2-7-6-5.Следовательно,худшая сложность О (log n)



Графики







Плюсы и минусы AA-tree

Плюсы :

1. Низкая сложность основных операций над элементами : вставка, поиск и удаление.
2. AA-tree прост в реализации
3. Фактически самое быстрое бинарное дерево

Минусы :

1. Если вам не нужны упорядоченные данные лучше использовать хеш-таблицы,где есть поиск / вставка за O(1).

Применятся в случаях, когда нам нужен быстрый поиск/сортировка/удаление,причем важно, чтобы данные были упорядочены (иначе было бы целесообразнее использовать хэш-таблицы).

Источники :

<https://www.cs.auckland.ac.nz/compsci220s1t/lectures/lecturenotes/GG-lectures/220handout-lecture10.pdf>

<https://habr.com/ru/post/110212/>

<https://www.sanfoundry.com/java-program-implement-aa-tree/>

|  |  |
| --- | --- |
| time | Size |
| 9848 | 100 |
| 1231 | 250 |
| 1641 | 400 |
| 1642 | 550 |
| 1641 | 700 |
| 411 | 850 |
| 1231 | 1000 |
| 1641 | 1150 |
| 1231 | 1300 |
| 1231 | 1450 |
| 821 | 1600 |
| 1641 | 1750 |
| 1231 | 1900 |
| 411 | 2050 |
| 820 | 2200 |
| 2052 | 2350 |
| 1641 | 2500 |
| 1641 | 2650 |
| 1231 | 2800 |
| 2052 | 2950 |
| 821 | 3100 |
| 1641 | 3250 |
| 2873 | 3400 |
| 2462 | 3550 |
| 1641 | 3700 |
| 2052 | 3850 |
| 1641 | 4000 |
| 2052 | 4150 |
| 2052 | 4300 |
| 1641 | 4450 |
| 3283 | 4600 |
| 4103 | 4750 |
| 1231 | 4900 |
| 1231 | 5050 |
| 2052 | 5200 |
| 3283 | 5350 |
| 4103 | 5500 |
| 3694 | 5650 |
| 4514 | 5800 |
| 4104 | 5950 |
| 3693 | 6100 |
| 2462 | 6250 |
| 3693 | 6400 |
| 54989 | 6550 |
| 1231 | 6700 |
| 3693 | 6850 |
| 4514 | 7000 |
| 4104 | 7150 |
| 3693 | 7300 |
| 1231 | 7450 |
| size | time |
| 100 | 22160 |
| 250 | 80022 |
| 400 | 14773 |
| 550 | 10670 |
| 700 | 6977 |
| 850 | 10259 |
| 1000 | 5745 |
| 1150 | 6566 |
| 1300 | 3693 |
| 1450 | 13543 |
| 1600 | 7797 |
| 1750 | 35292 |
| 1900 | 40627 |
| 2050 | 11080 |
| 2200 | 10669 |
| 2350 | 17236 |
| 2500 | 7386 |
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| 2800 | 16004 |
| 2950 | 60734 |
| 3100 | 41037 |
| 3250 | 8207 |
| 3400 | 12311 |
| 3550 | 6566 |
| 3700 | 11900 |
| 3850 | 11901 |
| 4000 | 9439 |
| 4150 | 12311 |
| 4300 | 12311 |
| 4450 | 9849 |
| 4600 | 15184 |
| 4750 | 13542 |
| 4900 | 6566 |
| 5050 | 10259 |
| 5200 | 6976 |
| 5350 | 4514 |
| 5500 | 11491 |
| 5650 | 8207 |
| 5800 | 11490 |
| 5950 | 10259 |
| 6100 | 8617 |
| 6250 | 43088 |
| 6400 | 16414 |
| 6550 | 11080 |
| 6700 | 15594 |
| 6850 | 12722 |
| 7000 | 15594 |
| 7150 | 8618 |
| 7300 | 11490 |
| 7450 | 22160 |

|  |  |
| --- | --- |
| size | Time |
| 100 | 16415 |
| 250 | 2872 |
| 400 | 4103 |
| 550 | 3693 |
| 700 | 3283 |
| 850 | 3693 |
| 1000 | 42268 |
| 1150 | 4925 |
| 1300 | 11901 |
| 1450 | 2872 |
| 1600 | 7797 |
| 1750 | 7387 |
| 1900 | 4924 |
| 2050 | 9028 |
| 2200 | 29136 |
| 2350 | 10259 |
| 2500 | 10670 |
| 2650 | 8618 |
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| 3550 | 13132 |
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| 4000 | 27084 |
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| 5050 | 6156 |
| 5200 | 6155 |
| 5350 | 8208 |
| 5500 | 6566 |
| 5650 | 11490 |
| 5800 | 5335 |
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| 6100 | 6976 |
| 6250 | 8618 |
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1899, 2161, 2196, 1795, 1482, 1639, 1877, 787, 954, 1595, 2067, 2048, 2208, 1651, 1335, 1195, 2181, 590, 917, 330, 225, 360, 2229, 1410, 1755, 2199, 898, 144, 858, 2033, 1670, 1915, 557, 938, 138, 458, 826, 1779, 1381, 588, 1087, 348, 2142, 2076, 1699, 516, 1577, 1015, 845, 1407, 1968, 2036, 1016, 269, 85, 1718, 314, 2325, 952, 417, 846, 586, 273, 489, 1790, 1266, 757, 331, 2221, 297, 1158, 546, 1159, 2045, 1985, 690, 345, 119, 749, 823, 1812, 2176, 234, 660, 2295, 2302, 1769, 94, 881, 1741, 2035, 1024, 617, 774, 2346, 1122, 1852, 2139, 127, 2341, 1028, 2039, 288, 1164, 1872, 282, 1980, 2109, 1975, 178, 435, 105, 66, 1781, 771, 2203, 1298, 1021, 1327, 1883, 2040, 443, 1245, 265, 1033, 695, 278, 503, 2214, 997, 906, 251, 576, 2135, 159, 1420, 1846, 1712, 300, 2326, 434, 1425, 1648, 2343, 2013, 2137, 121, 599, 1561, 2226, 931, 2282, 93, 1623, 524, 728, 308, 2315, 1357, 1688, 11, 145, 86, 1470, 1573, 625, 2130, 942, 2004, 591, 1685, 526, 1337, 1488, 1815, 1064, 2230, 6, 1025, 966, 820, 1936, 1962, 182, 1273, 987, 1954, 1756, 1596, 1549, 254, 2327, 2099, 2150, 1493, 1000, 511, 1505, 1051, 65, 2294, 20, 1142, 193, 264, 1116, 1732, 1192, 2334, 132, 75, 2127, 194, 805, 1072, 390, 1654, 473, 1953, 2267, 1661, 616, 47, 283, 1508, 1, 1137, 1084, 2106, 2179, 761, 1605, 1223, 542, 1468, 1341, 436, 2042, 644, 1454, 402, 1075, 1029, 14, 2117, 497, 666, 1446, 995, 1977, 2138, 1154, 344, 202, 1725, 190, 1683, 1397, 2283, 864, 270, 2277, 950, 1400, 1094, 1520, 1892, 1792, 181, 150, 747, 1935, 1010, 72, 2119, 247, 961, 1543, 1626, 515, 1356, 1476, 742, 1339, 941, 2148, 1806, 1467, 1854, 399, 1585, 2003, 2322, 406, 2347, 1967, 1058, 1406, 37, 8, 620, 1229, 703, 1228, 2318, 1185, 920, 2118, 972, 685, 2124, 584, 349, 422, 1548, 1634, 1829, 1040, 562, 679, 2216, 343, 1599, 976, 2049, 849, 2092, 707, 1428, 146, 731, 650, 680, 240, 993, 1231, 1006, 1386, 1923, 860, 1730, 1022, 2046, 335, 45, 1828, 1359, 311, 2077, 2297, 113, 2068, 364, 852, 1816, 395, 64, 1030, 838, 2159, 1578, 1966, 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1685, 2319, 765, 1948, 357, 669, 1957, 1642, 1630, 1915, 483, 1934, 1584, 819, 1333, 1542, 330, 447, 1852, 2246, 2071, 1597, 1199, 1918, 1263, 2101, 1319, 1233, 1732, 1124, 1268, 1040, 2176, 1353, 1442, 2338, 423, 1616, 962, 902, 1342, 945, 2434, 2473, 2229, 2244, 751, 1900, 1963, 2414, 43, 470, 1181, 1655, 1799, 831, 6, 1504, 1413, 935, 991, 1438, 501, 45, 2364, 28, 909, 2019, 2237, 1582, 2313, 670, 1034, 1744, 27, 1750, 2160, 1444, 79, 1470, 1864, 1702, 339, 127, 2099, 1227, 26, 1457, 1182, 569, 2347, 2075, 1548, 376, 320, 1201, 995, 1603, 1083, 712, 722, 859, 1580, 161, 1215, 388, 2215, 471, 925, 205, 89, 2311, 1281, 1245, 2121, 654, 1738, 84, 1443, 2111, 2475, 1622, 1053, 1811, 594, 1578, 1596, 1843, 174, 429, 2445, 467, 1316, 1573, 183, 2299, 2391, 2062, 416, 647, 1777, 2220, 1137, 900, 8, 487, 2049, 476, 957, 953, 2147, 1899, 49, 272, 2252, 624, 919, 1459, 1026, 1753, 982, 2122, 1553, 380, 896, 1869, 102, 1682, 1626, 604, 1429, 1244, 1412, 2416, 2222, 1674, 2443, 868, 514, 148, 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2063, 111, 1745, 155, 1966, 15, 1587, 143, 2362, 2232, 435, 905, 1735, 381, 1849, 1019, 2308, 2186, 2226, 2130, 340, 1854, 1778, 1461, 1018, 2168, 1937, 800, 520, 402, 984, 2429, 977, 757, 1523, 589, 2065, 1264, 591, 1561, 1301, 126, 1041, 86, 1997, 1000, 1740, 52, 343, 754, 220, 1058, 2273, 534, 1370, 211, 1797, 2188, 32, 1420, 694, 1272, 2114, 1021, 2433, 1846, 187, 491, 1721, 570, 2001, 354, 2322, 204, 1213, 840, 1556, 2047, 1063, 1769, 57, 1819, 979, 1386, 2123, 386, 1368, 781, 130, 438, 71, 1017, 2154, 511, 1282, 131, 1179, 1515, 895, 10, 1567, 2162, 776, 922, 2200, 2363, 1767, 99, 927, 265, 865, 2107, 138, 1012, 797, 270, 2190, 493, 132, 976, 268, 309, 1175, 737, 1106, 295, 555, 95, 1994, 1758, 421, 1648, 113, 1552, 1947, 338, 2480, 1699, 303, 762, 199, 2208, 903, 2058, 226, 1942, 888, 2448, 1634, 1905, 651, 306, 2179, 772, 2140, 635, 1389, 948, 963, 271, 1695, 2463, 969, 2194, 723, 741, 2496, 2230, 2373, 2296, 1872, 1405, 2337, 1734, 2282, 455, 341, 2021, 293, 512, 1226, 1458, 2207, 928, 1109, 974, 1237, 2135, 904, 1748, 1349, 1989, 215, 862, 658, 312, 1670, 1747, 981, 406, 696, 1222, 1703, 2153, 653, 541, 1992, 235, 104, 451, 936, 633, 883, 238, 592, 383, 1477, 2421, 973, 2100, 2498, 1262, 387, 1851, 2366, 560, 627, 725, 1095, 2312, 1922, 2078, 472, 2381, 1071, 796, 2290, 692, 1921, 2302, 314, 2408, 12, 864, 2008, 37, 2182, 2301, 2103, 2491, 1311, 1085, 1169, 446, 1604, 1047, 1032, 889, 319, 1023, 432, 1536, 1768, 1146, 2151, 756, 290, 1317, 769, 866, 1765, 1930, 1782, 1974, 2340, 1848, 1090, 1286, 593, 2051, 299, 2352, 2462, 1730, 1529, 1404, 1147, 1636, 1821, 1835, 177, 2129, 956, 535, 523, 660, 2472, 1518, 1395, 719, 98, 214, 994, 1589, 1378, 736, 5, 2377, 2360, 522, 588, 2072, 1884, 2275, 632, 1056, 18, 91, 285, 1554, 1190, 758, 1080, 1298, 763, 2441, 1318, 1115, 2005, 1601, 1157, 2376, 482, 1562, 1550, 1194, 1868, 70, 1440, 629, 937, 495, 527, 526, 507, 261, 1925, 254, 448, 1774, 1970, 2104, 1165, 1258, 842, 680, 162, 1206, 834, 649, 2240, 1789, 288, 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2491, 2261, 2036, 457, 880, 2024, 2313, 1094, 786, 1013, 2588, 21, 286, 2379, 1212, 639, 882, 874, 482, 836, 465, 2740, 145, 385, 162, 1824, 1936, 1410, 2280, 2661, 9, 356, 698, 941, 10, 2210, 2554, 793, 546, 254, 2038, 1317, 2320, 1468, 1165, 1036, 1735, 2798, 640, 1017, 2171, 2497, 257, 855, 1166, 2336, 2708, 1042, 1494, 2391, 2628, 2325, 198, 762, 2793, 542, 2302, 2000, 530, 65, 2428, 2718, 2602, 414, 846, 2299, 1087, 329, 1088, 1909, 2445, 1134, 1554, 2558, 1396, 359, 596, 507, 1838, 202, 982, 2712, 568, 1790, 1198, 716, 1360, 2472, 2006, 2589, 1473, 14, 1305, 889, 1009, 648, 819, 2199, 170, 2784, 1398, 840, 862, 2390, 1607, 1050, 203, 770, 2220, 1864, 1141, 201, 1616, 760, 2651, 2191, 2056, 1408, 769, 912, 1463, 1621, 750, 2548, 1322, 2422, 1948, 30, 1655, 2273, 2413, 2052, 483, 322, 1705, 1846, 1073, 396, 56, 2709, 2671, 618, 399, 353, 2218, 300, 1482, 1365, 2018, 848, 1585, 2559, 391, 1659, 2175, 993, 651, 2780, 1164, 539, 626, 2127, 510, 619, 2043, 1250, 1079, 701, 378, 906, 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1283, 1660, 1812, 2156, 995, 1955, 893, 837, 1966, 346, 1911, 355, 2042, 576, 1370, 1893, 1840, 547, 1690, 1787, 664, 1795, 1179, 1249, 1492, 2011, 207, 2741, 1356, 859, 369, 687, 2440, 599, 1332, 1445, 460, 1720, 583, 1767, 2715, 929, 2385, 613, 1580, 1129, 1773, 1825, 180, 2513, 449, 1327, 2625, 1144, 1726, 1178, 2778, 1681, 2747, 186, 119, 1882, 728, 84, 289, 1865, 1979, 1471, 121, 1339, 1785, 985, 1589, 1572, 824, 2790, 773, 454, 1221, 2680, 2253, 2132, 2360, 1666, 823, 2760, 1430, 601, 772, 395, 1118, 250, 2526, 1868, 1303, 2701, 2615, 2639, 597, 1529, 1990, 2800, 2068, 2770, 2476, 1636, 2337, 348, 2049, 2286, 1994, 305, 659, 1547, 1905, 531, 2797, 1261, 809, 1665, 1121, 270, 2486, 1204, 905, 914, 2143, 1169, 1172, 1668, 939, 868, 1337, 684, 2404, 2131, 82, 320, 115, 1670, 1895, 2573, 2384, 1956, 2158, 2346, 1643, 77, 2635, 1476, 2224, 1599, 1350, 1730, 1608, 99, 2123, 1922, 2374, 2141, 2350, 104, 1651, 570, 2187, 2758, 400, 2666, 1472, 363, 2163, 2041, 984, 1126, 928, 498, 785, 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86, 1975, 676, 2642, 1930, 2226, 972, 1645, 1802, 264, 2723, 2219, 214, 562, 1822, 934, 1046, 1789, 2736, 756, 2264, 1839, 2568, 1227, 151, 964, 268, 1520, 2249, 2048, 456, 1058, 1750, 2352, 2630, 1971, 1187, 2571, 1993, 2333, 1413, 2488, 2543, 2560, 759, 2083, 2618, 1193, 1910, 2287, 1490, 1510, 2266, 2403, 176, 864, 689, 1919, 2149, 2420, 959, 1829, 1188, 1239, 2217, 974, 673, 12, 1105, 706, 1034, 1809, 265, 102, 615, 1565, 1515, 1003, 555, 127, 569, 1549, 2179, 3, 2291, 223, 794, 2290, 350, 1692, 529, 1111, 2483, 2444, 2596, 2177, 1934, 1377, 2077, 1203, 787, 1488, 1652, 1128, 274, 2124, 2162, 2051, 2496, 2144, 423, 285, 1544, 992, 2622, 2406, 403, 1737, 2153, 810, 1362, 2500, 826, 2055, 2688, 1518, 1208, 1039, 657, 1254, 2029, 828, 2450, 2421, 358, 1095, 561, 175, 845, 1409, 2469, 1914, 1707, 742, 908, 2106, 1343, 1703, 2471, 69, 1688, 2046, 2637, 1605, 923, 878, 108, 407, 1804, 120, 966, 1304, 1685, 513, 754, 508, 1524, 1064, 1504, 2284, 917, 771, 1709, 1048, 973, 1806, 1892, 963, 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1932, 497, 2293, 237, 475, 1345, 1679, 2242, 662, 467, 2692, 2694, 2166, 1220, 209, 389, 308, 1728, 1957, 1851, 1897, 453, 2353, 1135, 1813, 2058, 2674, 439, 1626, 1438, 1378, 1850, 421, 1531, 729, 965, 2192, 2185, 1054, 2528, 425, 1784, 2470, 536, 1686, 187, 2519, 801, 1420, 466, 292, 1123, 1314, 871, 240, 2487, 1231, 345, 1272, 1375, 232, 2170, 152, 1197, 1973, 1543, 642, 1006, 1233, 1501, 1302, 2621, 2315, 2028, 1340, 681, 989, 525, 1404, 1086, 1960, 2719, 901, 641, 2507, 36, 935, 18, 2230, 2307, 763, 903, 2405, 1446, 1205, 7, 1765, 1043, 2208, 1581, 110, 1698, 2235, 427, 2088, 2550, 1819, 1116, 500, 1466, 2084, 971, 19, 1100, 1817, 212, 875, 1056, 1074, 1373, 1563, 710, 891, 2489, 1619, 2691, 2461, 1503, 533, 521, 2368, 1206, 2492, 499, 1744, 2342, 614, 1259, 2133, 1031, 1265, 1715, 2140, 394, 1216, 748, 1885, 1763, 1938, 617, 2612, 2467, 1733, 283, 692, 2009, 253, 2669, 600, 556, 2078, 694, 1777, 1016, 921, 1248, 326, 731, 1588, 111, 210, 1997, 47, 1991, 1869, 755, 461, 2120, 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[12, 1601, 1904, 1521, 691, 37, 2387, 2267, 2331, 5, 2521, 932, 1418, 693, 1147, 2141, 1614, 2398, 269, 2119, 2667, 1452, 1798, 96, 276, 1483, 796, 1025, 1640, 2374, 1646, 1831, 328, 402, 576, 2198, 353, 1315, 1326, 392, 486, 2632, 714, 339, 252, 1606, 211, 1837, 294, 1355, 1962, 132, 967, 429, 1401, 2658, 2135, 2538, 1241, 319, 2076, 1016, 1625, 1563, 1620, 2321, 853, 2167, 724, 469, 228, 2641, 1358, 1159, 2595, 2182, 1641, 1880, 2558, 159, 1341, 1381, 394, 759, 632, 1421, 1630, 1053, 2066, 1020, 649, 877, 343, 10, 1820, 2533, 224, 1588, 271, 783, 1393, 846, 1578, 2780, 2690, 225, 2828, 452, 1657, 1019, 462, 773, 2633, 2902, 1745, 1060, 2759, 543, 384, 672, 2413, 2176, 2327, 522, 707, 1133, 1360, 2252, 2723, 1987, 2233, 2685, 1840, 2035, 2105, 43, 1228, 95, 314, 895, 1329, 2943, 2900, 2706, 784, 2687, 242, 1089, 2490, 2415, 2067, 1065, 87, 612, 351, 565, 1209, 1250, 1476, 939, 1927, 2530, 1752, 1112, 1038, 917, 2901, 1014, 2143, 1945, 836, 151, 965, 1403, 2241, 1021, 1739, 1513, 2446, 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2121, 2161, 364, 1854, 515, 2759, 702, 602, 2750, 1830, 612, 1583, 2316, 2278, 2819, 558, 1855, 2189, 945, 1108, 1622, 274, 87, 2440, 245, 1678, 1378, 2573, 1588, 1846, 829, 995, 395, 666, 2044, 864, 99, 257, 1858, 641, 1404, 1275, 561, 1363, 2419, 486, 567, 1335, 1564, 2480, 1266, 2726, 2921, 237, 154, 889, 959, 1095, 441, 3090, 984, 3077, 2258, 358, 2889, 2055, 2556, 3108, 1567, 3184, 497, 2955, 1277, 1267, 2437, 434, 2989, 2034, 70, 1635, 2973, 2239, 1006, 1707, 2807, 3245, 1624, 2053, 1717, 656, 371, 879, 341, 2024, 600, 2214, 2387, 2504, 2994, 140, 2049, 779, 1775, 2777, 2385, 674, 2570, 1440, 2489, 675, 1822, 1876, 2541, 363, 626, 530, 2317, 2205, 2363, 2832, 1059, 1874, 2509, 1719, 2232, 1279, 1269, 166, 2743, 462, 307, 3033, 1710, 3175, 2105, 629, 610, 47, 1713, 2576, 2727, 2615, 2174, 1728, 1148, 2555, 1304, 343, 2374, 3180, 412, 518, 3109, 1731, 2748, 2543, 2007, 1850, 1669, 972, 2404, 1153, 650, 1646, 2934, 605, 636, 1357, 2893, 1819, 1371, 3027, 1050, 2603, 2992, 470, 2898, 1262, 228, 2901, 1769, 2259, 2747, 2428, 2247, 2719, 3123, 2908, 2280, 78, 3102, 589, 1900, 2375, 2148, 1224, 2165, 1159, 3099, 594, 1330, 1303, 1083, 1288, 2730, 890, 2192, 2787, 661, 1668, 1886, 289, 347, 175, 2676, 1286, 1989, 209, 1368, 2931, 2589, 20, 599, 2687, 2662, 1215, 1809, 227, 1563, 1119, 1488, 617, 2608, 2725, 1145, 1320, 1673, 630, 625, 1036, 1944, 1548, 1049, 2826, 2290, 425, 2073, 1753, 1462, 146, 63, 929, 3037, 2451, 1961, 1348, 2888, 2681, 1882, 119, 2524, 1736, 3178, 1230, 149, 960, 2360, 1258, 1078, 346, 867, 1442, 2588, 284, 1652, 2506, 2080, 2951, 377, 3101, 2151, 1743, 2771, 2568, 1768, 244, 1950, 1761, 1344, 1352, 490, 2904, 1920, 1090, 2231, 2870, 871, 2349, 709, 327, 2429, 1609, 1732, 1982, 1408, 2047, 1746, 2803, 869, 1419, 1975, 2475, 506, 2736, 3195, 1762, 3188, 2046, 1130, 2257, 1816, 1568, 223, 3187, 1479, 3098, 1324, 752, 113, 2601, 1263, 1249, 393, 2390, 2672, 370, 2075, 1873, 1699, 54, 3196, 89, 837, 1492, 2761, 2217, 2760, 3058, 571, 2868, 13, 15, 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1343, 2246, 2444, 2858, 317, 258, 2107, 717, 136, 2302, 1785, 2371, 2507, 334, 1075, 1725, 3148, 1977, 917, 1152, 1134, 813, 3227, 725, 2715, 2318, 3208, 64, 3122, 2551, 1997, 1058, 2399, 1530, 1407, 1202, 2653, 3141, 1559, 1835, 1878, 664, 1955, 1353, 2338, 292, 1128, 302, 272, 2735, 2927, 3046, 474, 1987, 1765, 2661, 1446, 623, 1172, 2582, 2314, 966, 3150, 553, 2116, 2706, 3055, 2384, 3147, 1515, 2334, 207, 1171, 2235, 563, 839, 1005, 740, 1168, 1650, 1478, 224, 2072, 924, 1193, 3013, 1670, 1447, 1161, 464, 1756, 415, 1740, 1749, 2996, 3236, 104, 596, 2493, 2763, 2993, 28, 108, 197, 2655, 3167, 336, 1539, 1840, 1553, 544, 2957, 3050, 1946, 1849, 1712, 1645, 1141, 782, 3234, 158, 1688, 1496, 2213, 947, 215, 2410, 3005, 1379, 31, 3247, 1752, 3242, 2923, 799, 1360, 1818, 170, 2154, 526, 2184, 121, 1387, 822, 3040, 805, 476, 523, 357, 460, 2012, 344, 2423, 2350, 516, 382, 131, 1315, 3199, 834, 1631, 463, 1700, 1924, 819, 914, 1359, 2794, 1312, 1045, 2227, 3021, 2179, 1481, 2920, 1791, 1667, 3020, 2376, 1903, 1197, 2238, 2377, 1154, 1241, 968, 1820, 2698, 2547, 1038, 861, 521, 2938, 922, 1157, 3174, 911, 746, 576, 2529, 2713, 2652, 3076, 472, 420, 2571, 213, 2741, 318, 326, 130, 198, 3038, 2537, 2883, 1039, 2310, 305, 494, 774, 2112, 2194, 32, 606, 2965, 1518, 1556, 144, 56, 1813, 2450, 2758, 2997, 2886, 1637, 2707, 696, 25, 1123, 3224, 1388, 622, 1682, 2001, 126, 955, 2032, 1431, 300, 2621, 2188, 276, 381, 1552, 525, 2508, 3028, 2595, 2772, 1072, 938, 1868, 598, 1403, 2629, 3053, 1662, 319, 2111, 2092, 2430, 291, 2295, 90, 321, 2838, 2270, 2877, 1865, 1932, 2412, 2800, 2520, 1031, 1473, 908, 2754, 252, 459, 2203, 235, 974, 72, 17, 1165, 910, 69, 2208, 1234, 691, 44, 680, 1291, 129, 3091, 199, 764, 1516, 1391, 1526, 3149, 5, 255, 953, 2308, 591, 259, 2303, 1228, 2307, 1374, 2607, 1507, 3072, 1660, 2463, 127, 789, 775, 2755, 1325, 2229, 2546, 2977, 2705, 1259, 1709, 729, 3191, 2446, 3056, 788, 1575, 295, 932, 202, 548, 1490, 816, 1894, 1190, 229, 1399, 3157, 265, 218, 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1495, 2330, 973, 2793, 1602, 2824, 1999, 1284, 1925, 2351, 1518, 2408, 350, 3305, 292, 337, 2786, 3136, 3131, 545, 2161, 3126, 1715, 3152, 1502, 1197, 3503, 3237, 1218, 1892, 2095, 81, 1796, 3105, 2759, 655, 3342, 1875, 3055, 687, 1535, 1276, 1233, 1228, 104, 1756, 109, 1496, 2791, 633, 192, 451, 929, 1743, 2991, 3303, 419, 2222, 2898, 3486, 3291, 3082, 2825, 3460, 679, 1863, 1620, 2097, 1413, 2495, 3119, 2999, 1224, 2945, 2040, 1721, 3266, 3487, 2764, 2074, 977, 58, 1351, 3192, 1211, 3069, 1262, 267, 2931, 2489, 2835, 3278, 1162, 2745, 1616, 2413, 231, 2938, 3240, 339, 2149, 722, 1442, 3184, 3445, 575, 2843, 853, 664, 1332, 3359, 587, 2042, 168, 2289, 1080, 2268, 244, 686, 2556, 615, 2279, 51, 75, 172, 135, 3250, 1791, 2032, 2457, 941, 182, 2696, 694, 1979, 2652, 3483, 2807, 2131, 2395, 303, 2410, 1654, 1928, 614, 3085, 617, 1662, 3350, 2426, 586, 2470, 2031, 895, 3366, 2248, 760, 3354, 1103, 975, 1354, 3395, 470, 481, 2204, 1739, 2344, 870, 2118, 85, 2817, 1972, 2405, 2328, 3072, 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3454, 1884, 802, 1924, 2381, 531, 768, 60, 1689, 1885, 1020, 3036, 1438, 3286, 1314, 514, 1808, 2081, 2582, 1982, 9, 715, 3293, 1200, 2594, 3345, 1764, 1327, 2622, 245, 1934, 2763, 730, 1664, 404, 2436, 2826, 298, 3102, 1351, 2933, 1104, 1196, 468, 2794, 2044, 2699, 1466, 1816, 1291, 739, 3297, 3544, 810, 418, 2278, 575, 1407, 2085, 167, 2974, 2462, 1454, 2969, 372, 260, 487, 1391, 751, 3246, 850, 667, 3218, 180, 2392, 1096, 1049, 2384, 3374, 365, 427, 3231, 2781, 864, 3098, 1464, 1906, 1397, 1867, 1626, 927, 2941, 1868, 913, 2891, 1613, 1155, 1211, 1116, 748, 2607, 1192, 2522, 1185, 3060, 2896, 455, 2485, 2733, 1146, 3484, 3420, 878, 2545, 1643, 1441, 1017, 880, 1819, 2894, 301, 686, 3589, 497, 852, 1089, 3148, 2226, 1022, 3455, 142, 43, 3051, 905, 1527, 648, 2058, 2996, 835, 1165, 195, 3186, 1981, 3548, 244, 1228, 1066, 1911, 3593, 1321, 1345, 493, 1222, 2520, 1006, 1988, 2341, 3433, 2674, 3044, 1128, 661, 2619, 559, 928, 1535, 992, 1152, 71, 2465, 908, 1829, 3025, 1154, 428, 2283, 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[3483, 1280, 3430, 1278, 1761, 2854, 3270, 2888, 887, 559, 1498, 1731, 1205, 3261, 1886, 1481, 1659, 3732, 1518, 1591, 3567, 1030, 3283, 3432, 3268, 198, 681, 2487, 2359, 3337, 2240, 1017, 423, 139, 2105, 818, 3113, 3117, 2326, 1757, 1529, 3526, 3754, 3761, 1724, 2515, 1417, 796, 2956, 3767, 1983, 1000, 500, 2675, 2912, 1106, 829, 50, 101, 3130, 1357, 3659, 612, 1015, 2020, 2238, 1341, 2530, 2580, 2899, 1870, 3704, 3489, 1406, 120, 3289, 2832, 3146, 1252, 2840, 2960, 3121, 3334, 2901, 1714, 1666, 1975, 696, 1618, 1158, 1985, 2612, 2436, 1685, 2773, 1069, 1009, 2469, 79, 3255, 147, 2209, 3325, 1944, 1046, 113, 3050, 3143, 759, 1310, 645, 1430, 629, 2808, 2051, 1976, 2550, 169, 3399, 220, 1877, 891, 1673, 2008, 2748, 1649, 1442, 41, 1313, 3004, 925, 3096, 3398, 3725, 311, 3384, 3386, 2825, 658, 310, 1639, 155, 2313, 1986, 369, 3461, 1795, 2151, 2896, 2407, 483, 1081, 473, 1460, 391, 868, 761, 1891, 3165, 1315, 3762, 3818, 2004, 1253, 3757, 2214, 1365, 1433, 524, 336, 7, 1291, 133, 3574, 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2470, 3737, 1383, 1610, 2795, 756, 497, 1413, 285, 231, 218, 3763, 1862, 2490, 3407, 1188, 409, 3266, 3527, 2804, 2926, 94, 3747, 1080, 191, 3380, 2690, 799, 1060, 1966, 2845, 2001, 3415, 804, 2598, 23, 2119, 2740, 1331, 2786, 2988, 3418, 3066, 2472, 1057, 2924, 825, 2449, 1589, 1562, 793, 1632, 207, 427, 3249, 1041, 2187, 3641, 1443, 2389, 627, 1744, 637, 3795, 3390, 2687, 1687, 3052, 3497, 455, 506, 1704, 2207, 2958, 3125, 2637, 230, 1771, 2754, 1762, 784, 623, 238, 1640, 3129, 801, 1538, 93, 541, 917, 400, 2113, 2868, 3547, 1789, 78, 1818, 2551, 468, 2446, 2498, 2835, 1075, 1287, 2387, 1410, 380, 1285, 3710, 1086, 2048, 3010, 974, 1990, 1045, 2789, 2194, 3592, 128, 418, 3494, 3775, 2265, 3564, 3666, 3169, 2139, 1077, 2552, 130, 2560, 2949, 893, 1548, 728, 4, 1301, 1002, 691, 1698, 3671, 1316, 1508, 3756, 3842, 2529, 2394, 3685, 151, 1364, 1078, 2474, 419, 1507, 2453, 3806, 619, 2391, 1753, 1850, 3833, 2554, 2572, 1247, 61, 1195, 2444, 753, 2816, 3211, 858, 1887, 456, 402, 1635, 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[2472, 2988, 2941, 711, 1179, 820, 3849, 3839, 515, 1613, 103, 1836, 618, 94, 245, 2634, 2703, 1369, 3734, 746, 2452, 586, 3694, 2427, 1597, 2889, 3661, 1300, 419, 112, 3947, 3671, 2625, 440, 3425, 1104, 1926, 2851, 2825, 559, 2368, 1739, 3083, 1969, 269, 2281, 1310, 3609, 2807, 2866, 1036, 2722, 3254, 1933, 4182, 3711, 1910, 2312, 3067, 1440, 4004, 1462, 2796, 2867, 833, 1395, 3940, 2572, 81, 2150, 4227, 1410, 175, 1133, 1237, 1411, 741, 1478, 379, 228, 1486, 2989, 2574, 3802, 3495, 3442, 1210, 231, 4283, 1293, 2651, 2785, 4240, 520, 3464, 186, 3939, 188, 3779, 128, 1724, 3519, 325, 518, 1671, 3952, 3421, 4291, 3330, 4266, 131, 1161, 3414, 3019, 1685, 738, 1039, 280, 1500, 2440, 4292, 2497, 70, 3713, 1012, 3011, 1, 2405, 1218, 1987, 2656, 1604, 941, 684, 480, 2178, 3389, 3291, 3220, 1881, 591, 4147, 1778, 604, 3873, 959, 3190, 1977, 709, 3816, 9, 1414, 2939, 207, 1409, 1254, 1202, 1253, 8, 877, 500, 822, 2024, 3719, 2506, 2367, 544, 1841, 732, 2267, 1207, 2901, 1053, 1684, 25, 1388, 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3772, 1621, 1380, 3395, 2657, 3066, 3679, 3296, 1812, 3201, 3917, 2337, 4161, 123, 3928, 1560, 3326, 2652, 3257, 3371, 984, 2585, 2997, 3852, 3773, 2216, 1857, 1400, 3211, 408, 2972, 1904, 4213, 2014, 1229, 2837, 2966, 3321, 2401, 2464, 226, 267, 2041, 2176, 730, 3187, 4268, 2074, 3946, 4297, 2353, 3748, 1872, 2687, 3226, 99, 146, 18, 4001, 780, 3560, 2358, 2377, 2310, 1780, 3418, 631, 2114, 3197, 3599, 1145, 4137, 2470, 3572, 2740, 1448, 1185, 2170, 30, 1735, 3142, 1171, 1713, 817, 4122, 36, 1570, 2252, 11, 3581, 1690, 1691, 2951, 3179, 1794, 813, 4274, 449, 685, 770, 1211, 3797, 2436, 2570, 4219, 3071, 2325, 2193, 1226, 599, 1178, 4296, 3736, 608, 3869, 4285, 2430, 3375, 3943, 607, 4146, 3905, 1823, 1137, 2413, 779, 2810, 880, 4209, 3510, 1588, 1420, 516, 3981, 3632, 1516, 1583, 3614, 3533, 3813, 1122, 3718, 590, 3309, 194, 3410, 2195, 2688, 1653, 104, 3351, 360, 968, 4202, 95, 650, 1169, 740, 3264, 1291, 3976, 614, 2101, 2116, 2768, 4179, 2446, 1412, 1382, 3322, 972, 1935, 2887, 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2152, 295, 2613, 2721, 3446, 2317, 4083, 4186, 1066, 383, 2506, 3322, 1659, 1791, 3058, 2386, 289, 23, 1194, 2460, 2678, 1848, 3737, 1717, 540, 4093, 2676, 2193, 3131, 2400, 2873, 1257, 1030, 2182, 4436, 847, 148, 2290, 3777, 1897, 2089, 3475, 1584, 2265, 420, 2966, 2143, 961, 4153, 1513, 4265, 1237, 1300, 3769, 168, 1778, 1317, 1577, 3181, 2343, 4283, 2579, 1373, 1598, 3366, 912, 3907, 3017, 3173, 727, 3177, 3931, 2626, 1463, 1858, 2127, 2187, 2540, 607, 180, 4104, 3372, 2750, 2818, 2189, 592, 2725, 211, 3602, 476, 4276, 1935, 1455, 2766, 2637, 791, 3196, 4369, 1471, 2550, 2553, 393, 3532, 3457, 2736, 1809, 2598, 372, 1550, 3397, 4133, 2426, 2223, 4222, 2491, 2156, 4378, 1972, 2572, 539, 2408, 4204, 4180, 2809, 2380, 4160, 658, 72, 669, 899, 2589, 1159, 1071, 4136, 493, 3408, 1840, 230, 1819, 3401, 4351, 1984, 2348, 2560, 2664, 2367, 442, 3554, 1759, 893, 588, 4074, 2476, 1710, 1901, 688, 432, 1846, 1024, 4303, 4097, 1191, 2996, 4212, 659, 1101, 1025, 1893, 286, 3320, 1828, 3377, 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2445, 3222, 3515, 3489, 686, 1957, 3248, 575, 2559, 2205, 3859, 1547, 2420, 3431, 4296, 419, 1932, 4554, 3095, 1396, 2025, 3991, 2692, 4435, 3031, 1408, 3418, 1385, 1684, 3257, 2941, 4006, 1956, 258, 5134, 3467, 2502, 1777, 43, 4204, 1438, 1515, 1325, 343, 3250, 1901, 4908, 4410, 3101, 2999, 4310, 5190, 1763, 2232, 2719, 1260, 3379, 3311, 705, 2826, 3416, 29, 246, 4491, 2663, 2397, 1353, 3768, 5019, 1837, 4387, 146, 4885, 4831, 357, 2477, 5302, 399, 4158, 5224, 4471, 2773, 3495, 5049, 198, 4050, 4960, 4754, 4151, 311, 3299, 2259, 4757, 1958, 1991, 5315, 1898, 4177, 2329, 240, 929, 4168, 133, 3796, 2423, 895, 3770, 573, 1440, 2085, 3334, 2011, 2983, 178, 4486, 1098, 2348, 4592, 1790, 428, 352, 4555, 4097, 1619, 4608, 367, 2359, 4262, 1079, 1966, 158, 1272, 1002, 1989, 526, 1474, 5030, 5211, 616, 1486, 202, 2473, 1179, 2402, 3015, 4421, 2387, 2208, 2868, 3702, 4830, 4042, 4197, 5077, 611, 4037, 1992, 3867, 1146, 2171, 5067, 751, 938, 937, 2260, 25, 3447, 4571, 4229, 4482, 1894, 2032, 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1908, 1583, 1024, 654, 1685, 1756, 1824, 3456, 542, 840, 1803, 4979, 3570, 3635, 2519, 782, 389, 2685, 2655, 605, 3468, 1163, 2760, 4403, 385, 534, 3380, 1378, 118, 2034, 4619, 4645, 3848, 403, 1291, 2376, 773, 2831, 2624, 4926, 3783, 3464, 2824, 778, 3390, 5069, 4700, 4527, 1250, 300, 1150, 4930, 636, 3776, 2355, 2161, 4735, 253, 20, 2665, 209, 1218, 2953, 2746, 4353, 927, 2934, 3832, 297, 3462, 5253, 3455, 2255, 4094, 3181, 1963, 3007, 410, 3330, 4346, 3115, 2220, 3944, 601, 3641, 159, 1253, 5074, 2247, 3683, 4217, 3221, 5270, 2747, 5133, 3735, 394, 2699, 2064, 154, 770, 1100, 3305, 608, 4694, 1324, 562, 2257, 3438, 3941, 3697, 5320, 3141, 668, 3924, 4129, 3223, 2429, 960, 2156, 2776, 2415, 3126, 1302, 2465, 3610, 1494, 2368, 2984, 714, 2073, 2583, 4532, 4303, 3871, 3528, 24, 1073, 1761, 688, 4210, 2417, 3888, 3934, 893, 3004, 758, 1668, 613, 2250, 1376, 4933, 301, 4391, 3904, 5119, 5299, 3920, 4712, 3791, 1520, 1677, 1167, 862, 673, 3529, 4671, 6, 434, 1780, 2979, 553, 1012, 2037, 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3982, 2909, 756, 1621, 2238, 3510, 2221, 3178, 894, 2620, 3754, 1302, 2145, 5417, 2646, 368, 2965, 2544, 5246, 33, 899, 2192, 4733, 1408, 3818, 3819, 2296, 2195, 1217, 5324, 166, 1043, 5262, 2, 4230, 2471, 3523, 3052, 5307, 1676, 97, 2141, 924, 5292, 472, 1498, 1988, 1419, 1803, 4661, 4605, 5185, 1295, 3169, 372, 664, 3185, 2710, 2848, 3973, 334, 2059, 4193, 1792, 2224, 1805, 169, 4675, 5028, 4957, 975, 4509, 1010, 4921, 1181, 5012, 4746, 2287, 1294, 348, 2428, 3548, 3561, 1079, 1, 2382, 2223, 4271, 5263, 3307, 1406, 255, 4340, 3655, 494, 1077, 4389, 2346, 1072, 5294, 4494, 5372, 911, 1814, 1495, 1312, 694, 3899, 943, 2819, 2081, 136, 626, 1779, 2598, 44, 1028, 1904, 3825, 1590, 810, 2773, 4346, 4476, 3838, 3462, 922, 774, 5006, 755, 3179, 2538, 3162, 168, 3000, 3585, 5392, 3904, 5341, 1370, 272, 220, 5016, 3072, 2617, 464, 3647, 5152, 2072, 3045, 565, 3441, 3646, 1494, 2920, 5433, 2521, 4435, 240, 1683, 904, 3789, 4216, 1818, 909, 998, 4391, 645, 3199, 2363, 3057, 154, 2813, 4528, 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1234, 1274, 5574, 4400, 2647, 2982, 1877, 4650, 3103, 1993, 3700, 1122, 5419, 4524, 4628, 4960, 2604, 3111, 4681, 2556, 3327, 749, 2796, 3331, 2589, 176, 3345, 2598, 5580, 4705, 3154, 1140, 317, 4010, 4957, 2073, 4905, 3329, 482, 2596, 3024, 3279, 5143, 1681, 1188, 296, 3818, 2806, 3941, 303, 742, 3898, 8, 4346, 2300, 3954, 3375, 2912, 1716, 4870, 2101, 2706, 5374, 4148, 1008, 3301, 3993, 188, 4242, 3949, 1559, 1339, 2859, 2829, 4545, 5429, 2256, 3843, 2370, 4590, 1508, 2534, 5599, 3282, 3939, 3937, 4622, 65, 3850, 2183, 3957, 2622, 350, 3153, 5384, 3800, 5491, 1487, 3553, 5399, 2831, 1516, 2897, 3872, 103, 3710, 3636, 4327, 1741, 686, 1926, 5198, 5207, 554, 5445, 1566, 1916, 5145, 949, 2136, 1311, 973, 3419, 3033, 46, 1851, 853, 4114, 1574, 3707, 2886, 5614, 2631, 4934, 976, 3176, 1871, 5545, 2486, 4167, 1455, 4861, 126, 442, 3545, 4262, 3628, 4730, 4254, 3379, 2742, 2099, 3812, 4310, 767, 4004, 4744, 3459, 1987, 4811, 4418, 3369, 3147, 1774, 2513, 1092, 2004, 1713, 3420, 19, 4555, 3396, 1019, 2164, 2123, 1805, 1598, 2087, 1763, 4739, 4201, 418, 3716, 230, 4910, 154, 2648, 4522, 1135, 1509, 343, 5212, 4267, 1095, 4041, 1740, 2620, 1229, 2270, 2128, 4485, 3854, 122, 410, 2336, 4814, 2623, 145, 3623, 3554, 1454, 356, 1757, 5191, 43, 4093, 4330, 2942, 1898, 856, 2586, 1637, 5033, 4799, 2002, 1114, 1241, 5601, 5572, 3760, 1769, 874, 3335, 5632, 4647, 2695, 2397, 5474, 249, 5610, 5118, 3534, 1625, 3794, 3278, 324, 4638, 192, 5367, 711, 2924, 5002, 3552, 2070, 2304, 49, 523, 5648, 3293, 2599, 5073, 4447, 3704, 4349, 2094, 811, 2453, 580, 1185, 1056, 970, 421, 708, 2483, 2605, 1905, 5178, 3681, 3018, 1263, 1070, 1055, 1849, 3483, 2224, 4235, 4922, 1030, 2813, 1556, 2567, 4388, 1636, 5110, 2246, 3627, 1399, 2879, 5252, 4240, 228, 1443, 2362, 4216, 3392, 4959, 1126, 4820, 5388, 3611, 3892, 1510, 4708, 3878, 3687, 1543, 1390, 3198, 2739, 227, 3190, 4499, 471, 5221, 2568, 2076, 5295, 3086, 3645, 2080, 2258, 2532, 1882, 4352, 1790, 2921, 765, 5269, 91, 4391, 3847, 4874, 3772, 3809, 3053, 2079, 718, 4843, 1693, 1363, 5582, 4830, 1889, 2863, 4131, 5540, 4304, 4644, 4988, 2832, 2459, 4889, 3431, 639, 5458, 4221, 732, 3286, 962, 5341, 258, 87, 5468, 3741, 4126, 2812, 4149, 4023, 3672, 4275, 284, 2613, 2289, 4913, 2316, 1215, 4414, 3315, 1334, 4366, 3893, 1659, 2180, 2497, 760, 4570, 496, 5132, 2716, 5093, 787, 769, 2205, 2864, 4425, 2650, 751, 4191, 3422, 568, 4224, 1850, 4825, 7, 3114, 2998, 4558, 5615, 469, 3858, 576, 500, 339, 5454, 2615, 4202, 4533, 1652, 3825, 4792, 944, 3008, 5335, 2130, 268, 4709, 2023, 1706, 4919, 986, 1244, 3234, 1359, 1644, 3107, 4574, 5577, 5550, 2251, 3099, 5546, 1180, 5114, 5340, 2770, 833, 3097, 5521, 5112, 2855, 1903, 1562, 1416, 2733, 1952, 2776, 2344, 802, 1609, 2054, 3857, 4993, 1067, 2986, 1214, 2230, 5229, 5343, 3595, 4018, 2814, 4573, 2786, 4124, 4568, 614, 3225, 1462, 1718, 3584, 957, 335, 5585, 1796, 3862, 2378, 549, 4755, 662, 5117, 755, 5058, 3597, 1072, 3395, 280, 5297, 2564, 1756, 2399, 193, 3173, 3470, 2418, 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2999, 1279, 2910, 1824, 2417, 2584, 4809, 2513, 5080, 580, 3468, 3068, 4047, 3626, 496, 5355, 5204, 5746, 208, 5230, 5682, 3192, 4940, 2432, 2481, 3280, 2514, 5574, 300, 2195, 5049, 4191, 936, 886, 1607, 89, 5761, 3410, 5087, 2234, 5559, 1947, 2268, 4355, 4648, 3440, 548, 5647, 132, 2294, 5530, 2171, 4554, 3357, 917, 1471, 2106, 573, 443, 1133, 398, 53, 5279, 308, 3367, 5521, 2865, 1429, 1615, 2357, 5570, 5278, 2148, 2213, 3942, 3321, 1453, 167, 3228, 1562, 728, 5507, 3616, 2194, 2238, 1278, 4004, 5589, 3730, 1420, 3768, 344, 2749, 27, 5191, 5557, 698, 1588, 4222, 4966, 146, 5644, 5160, 469, 3953, 1948, 473, 4703, 4137, 1682, 350, 1771, 4566, 2545, 1122, 5205, 1906, 3774, 4161, 4067, 2229, 4236, 3019, 2623, 4042, 99, 1843, 145, 1357, 2943, 2684, 1379, 3888, 4359, 1647, 3955, 2671, 3211, 3164, 1432, 3401, 890, 3925, 1150, 4505, 640, 4257, 1583, 3310, 3812, 4168, 3124, 822, 5737, 1190, 2143, 566, 973, 5752, 2594, 5192, 5610, 2489, 1619, 4523, 4603, 3059, 4043, 3178, 4669, 2842, 3080, 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497, 3971, 5637, 1572, 216, 12, 5257, 2363, 4695, 4629, 3934, 1656, 3649, 780, 3112, 4530, 4799, 3587, 1621, 2528, 4001, 198, 1569, 2882, 3282, 4666, 4491, 2139, 2012, 1094, 3585, 5534, 3233, 1110, 316, 240, 851, 3469, 1750, 5079, 3436, 4100, 5541, 2349, 351, 767, 58, 2203, 5606, 4775, 5532, 2778, 3274, 4291, 1908, 4916, 980, 5062, 1199, 55, 4134, 3263, 1313, 5365, 4233, 881, 5614, 2587, 5201, 1195, 4458, 3764, 1025, 4052, 2095, 1844, 4512, 560, 5724, 5714, 697, 474, 376, 5664, 260, 3257, 4541, 2285, 1801, 1808, 598, 2445, 2416, 1842, 771, 2484, 11, 2812, 1463, 5780, 448, 4476, 1398, 3514, 5466, 2314, 2666, 2405, 1097, 919, 5758, 5222, 5597, 4205, 735, 1701, 904, 5252, 4215, 180, 457, 4817, 1513, 2590, 842, 1412, 5325, 4279, 2129, 5352, 2497, 660, 3486, 3773, 4386, 3960, 3640, 1587, 1082, 4027, 1963, 1424, 1997, 1768, 57, 5122, 4611, 2462, 646, 5462, 899, 3086, 5384, 4516, 5707, 2279, 4515, 3589, 3635, 572, 1862, 3893, 5023, 5632, 3423, 5083, 3087, 2869, 195, 4471, 2478, 3956, 4923, 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4179, 5045, 1285, 2207, 5657, 595, 4230, 5291, 3094, 381, 866, 2257, 4514, 1895, 5337, 414, 354, 5744, 3979, 1977, 2094, 1639, 4809, 2437, 4573, 5091, 1032, 2280, 4156, 4421, 960, 1616, 3282, 1799, 1788, 2142, 2709, 3123, 1686, 2296, 4002, 1718, 853, 4250, 2884, 615, 1200, 283, 5891, 2572, 613, 835, 3788, 2758, 5476, 160, 2251, 1298, 2430, 1588, 4468, 4484, 4531, 1673, 920, 1801, 2427, 1118, 124, 4804, 1143, 4490, 4710, 2147, 1281, 1235, 3432, 2096, 2226, 558, 5670, 5005, 4204, 677, 1074, 262, 2992, 679, 5428, 4136, 811, 4357, 3099, 4390, 2480, 718, 473, 4961, 5766, 5347, 2578, 4565, 3961, 348, 2247, 4016, 276, 2107, 1482, 4142, 4564, 48, 1856, 1462, 5270, 4478, 2406, 275, 3492, 5534, 1, 5868, 4405, 3703, 2911, 1910, 649, 3080, 5918, 918, 4795, 3124, 419, 5065, 1376, 3448, 192, 1513, 459, 5102, 1062, 938, 749, 4616, 462, 4817, 3509, 2763, 5819, 5463, 1241, 2013, 373, 2673, 2451, 5807, 5731, 5539, 3499, 957, 1687, 1778, 1283, 1822, 5556, 4135, 4623, 5193, 538, 3113, 3045, 5718, 5384, 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1592, 5661, 1248, 5830, 4013, 2890, 216, 2975, 1133, 1667, 3250, 4034, 1141, 1143, 4853, 1978, 1777, 2662, 818, 5123, 4264, 2317, 5025, 1088, 673, 2990, 5294, 148, 2112, 1941, 5144, 2225, 2264, 462, 4154, 1340, 475, 5576, 1607, 4288, 5052, 2692, 1334, 710, 2508, 1324, 4968, 1212, 2221, 5738, 3243, 2651, 2930, 2673, 2017, 1062, 3641, 1765, 5554, 5183, 3544, 5466, 4526, 3106, 3107, 1508, 568, 1229, 3594, 2667, 4242, 5460, 2231, 1492, 5138, 4834, 255, 765, 59, 5985, 3787, 1258, 4196, 732, 3866, 448, 1367, 4722, 829, 2046, 5628, 633, 2582, 3871, 5454, 372, 3926, 45, 3765, 5379, 307, 4484, 1680, 1389, 1394, 4046, 270, 5473, 5246, 1341, 1496, 2753, 150, 2253, 1736, 432, 1973, 3827, 647, 195, 3433, 3857, 1984, 5950, 1414, 2343, 1047, 5774, 2173, 4902, 1841, 2834, 1988, 1893, 1864, 4472, 3956, 4444, 4542, 3914, 5629, 5995, 5803, 5546, 4443, 3236, 166, 3531, 5048, 4645, 638, 4718, 3611, 1213, 5440, 5673, 697, 4595, 4333, 5575, 1395, 1255, 2355, 4342, 3551, 5202, 262, 3154, 3136, 5171, 164, 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1523, 4196, 610, 5974, 4633, 3626, 5353, 3193, 2915, 5450, 4234, 1837, 1362, 2700, 162, 903, 313, 3148, 3709, 3676, 2032, 2601, 1446, 2980, 1600, 5385, 1134, 2903, 2367, 5737, 5604, 4712, 4654, 44, 1097, 3629, 5863, 1508, 3395, 2819, 4932, 3642, 3179, 1169, 5027, 3926, 2911, 352, 4420, 3801, 5118, 4569, 516, 5408, 5896, 488, 4379, 4692, 4834, 3906, 1645, 5733, 4245, 4166, 626, 4058, 4905, 5049, 3572, 3408, 4250, 2752, 1505, 5130, 822, 2985, 276, 5930, 5152, 341, 4916, 3882, 866, 4462, 2296, 2190, 5324, 1689, 1814, 2081, 3256, 4206, 905, 1999, 310, 5650, 5387, 2954, 5690, 3341, 5088, 5021, 3463, 2811, 4161, 1806, 2481, 3915, 1770, 2958, 2020, 5362, 4947, 2443, 2543, 4471, 4338, 3479, 3196, 1987, 1711, 4675, 449, 5973, 4866, 5908, 1219, 1327, 5820, 282, 4786, 585, 5008, 5882, 2777, 5247, 5463, 724, 521, 3024, 405, 147, 1776, 791, 3977, 1738, 3340, 5044, 558, 4349, 975, 3026, 2690, 3715, 781, 2054, 6129, 1262, 5123, 2287, 1022, 2383, 981, 5274, 2072, 4266, 413, 1006, 1212, 3913, 417, 2853, 2095, 5633, 5462, 4199, 2298, 2428, 6087, 540, 3336, 2641, 4917, 4088, 4875, 2648, 5302, 2631, 5941, 3495, 3990, 5154, 1798, 1797, 4792, 4321, 2071, 5301, 3652, 5640, 5002, 1650, 1971, 604, 2334, 2735, 6194, 5043, 764, 4664, 4790, 4388, 6033, 4889, 2014, 3502, 4537, 1562, 4966, 3034, 2846, 4357, 3272, 409, 2707, 5379, 6073, 2656, 4190, 6180, 757, 5158, 396, 4226, 4943, 6050, 2962, 5512, 573, 4581, 1439, 2939, 5216, 2390, 1246, 5649, 5571, 6109, 2977, 2463, 3218, 4130, 4548, 971, 1789, 2030, 4992, 3111, 2691, 2484, 5854, 4450, 1964, 2335, 704, 3307, 1625, 4873, 2837, 4485, 4630, 1731, 90, 3152, 3524, 2185, 5541, 5701, 5464, 1105, 2419, 658, 646, 1467, 3667, 1060, 5086, 3441, 1002, 842, 702, 5035, 260, 4549, 3406, 2701, 2293, 528, 5291, 5444, 4852, 2485, 5652, 3491, 617, 5913, 3565, 1761, 2688, 5347, 274, 2703, 1694, 3488, 2532, 2640, 1947, 2578, 3829, 2057, 1224, 4719, 1859, 1177, 5228, 4090, 2124, 6165, 1499, 2397, 2937, 4202, 5340, 6064, 4623, 3126, 5116, 1473, 3379, 5743, 1352, 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3235, 1568, 2501, 6731, 3833, 497, 3762, 1189, 3728, 7048, 1603, 2088, 2885, 776, 5277, 2446, 1327, 7126, 1238, 473, 5894, 4408, 6663, 5724, 607, 5132, 2157, 6332, 3480, 5224, 6204, 6648, 5226, 1213, 6126, 5012, 5540, 3159, 4789, 1995, 4080, 995, 498, 3835, 4277, 7139, 3943, 324, 6385, 3172, 3925, 4270, 3511, 6641, 3396, 2328, 7105, 4969, 6497, 390, 1801, 940, 1332, 3634, 3232, 5854, 4931, 1847, 6463, 2281, 2700, 6502, 877, 4891, 4254, 5240, 4894, 6171, 85, 3766, 2191, 3402, 5214, 4249, 3801, 5063, 5334, 2725, 2746, 98, 4840, 2705, 626, 5585, 5742, 1934, 7136, 5169, 3050, 2813, 120, 4475, 3780, 5406, 1106, 3957, 5251, 6942, 7012, 1601, 6219, 5938, 5743, 1871, 2169, 1503, 3225, 6370, 2562, 2115, 3168, 1873, 2859, 5603, 5119, 794, 1984, 5700, 5664, 1462, 6106, 6242, 976, 3155, 6089, 961, 3408, 1045, 5730, 5578, 5520, 4530, 1235, 2218, 2925, 141, 6030, 56, 4769, 6081, 1877, 4260, 5871, 4180, 1535, 4048, 5532, 2645, 2367, 1074, 5597, 3590, 880, 5983, 680, 1559, 4263, 6888, 2814, 4883, 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3596, 6082, 5879, 4710, 5030, 4358, 7172, 4607, 757, 5911, 6461, 1780, 3147, 2838, 3505, 5087, 7081, 427, 3171, 1346, 6771, 4920, 1598, 4386, 2179, 2884, 5325, 97, 2003, 6697, 2139, 106, 1824, 3858, 6523, 679, 3903, 3911, 5798, 1186, 2609, 2493, 3281, 3958, 453, 3795, 5151, 3800, 1539, 182, 3804, 2070, 1465, 5298, 1136, 694, 1528, 5843, 2135, 4489, 6934, 6437, 3989, 3734, 4586, 228, 7120, 3284, 5815, 3882, 1194, 5873, 912, 3102, 1426, 7367, 1658, 4029, 2357, 1040, 2932, 1710, 515, 3272, 1479, 7275, 2875, 2576, 6763, 1336, 4843, 6685, 5714, 4496, 2862, 6963, 7349, 5405, 3470, 299, 523, 5064, 4578, 2551, 1250, 5536, 5605, 1157, 3258, 3377, 4370, 6305, 5914, 207, 483, 9, 5428, 462, 2162, 6039, 6717, 60, 3371, 646, 6337, 4266, 1816, 3819, 6742, 1667, 596, 4562, 4150, 2269, 4395, 1347, 3976, 2531, 4581, 5670, 6757, 2997, 2741, 2097, 950, 2233, 4455, 5806, 3134, 4378, 640, 6690, 2920, 3219, 1323, 1255, 3696, 5059, 2442, 1819, 5987, 3916, 4681, 257, 6799, 203, 1380, 5850, 2706, 5613, 2154, 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