[6961,-2640,-2948,4253,-1558,-3696,2324,2079,-3913,8934,-3832,-997,382,2206,-4206,-1508,-1106,6637,-2446,-4074,5348,3436,-195,-4796,4105,-6973,4492,-232,-1825,-3723,32,8577,-4123,-2886,5592,-6748,5714,-4237,4916,-3852,1186,-2624,296,-248,4667,-2569,1458,1146,-705,-4146,-1428,-230,8337,-3959,1471,-342,1224,-6825,2723,728,-1711,3092,-4958,9220,194,-5954,2893,-2775,1531,-1309,-2512,712,7126,390,-7577,6474,976,-6897,1906,-1922,-1344,3047,-1226,4787,519,-8270,6982,2606,-487,-8488,4817,3487,-6789,812,-557,1466,3949,-7535,7643,789,-1926,-2763,1216,1513,2837,-8782,3005,738,-1614,4038,-2510,1753,2637,-6373,1848,1151,-2439,2350,-4187,2011,3829,1673,-7533,8706,-3448,300,1278,-26,-7354,9062,-5782,146,-2901,7769,-8498,3805,2271,-5671,8017,-705,-1408,343,-4591,7006,-8552,4993,-5971,6428,-219,-1797,2042,-6188,2084,3763,-2757,181,3063,704,-4294,5855,-2952,-497,-2185,928,-278,6074,-3198,52,-2210,446,461,-2757,1158,4187,1465,-583,-4643,1693,615,2432,-966,-3449,-1072,-428,5788,-7500,5507,-2329,-2929,5666,947,-4927,-1193,1547,5032,529,-3736,780,1415,-4718,-307,752,-428,-1097,3277,4365,-51,-2199,-1226,-158,-3491,-223,4065,-1982,3518,-3524,4376,-1800,-5310,1644,2074,-4804,8711,-5757,4884,-1105,2522,-5117,404,4022,-4791,-2837,6005,-3176,2578,186,2360,-7647,3168,-2737,4660,-3265,1223,429,-3924,7398,-4058,-901,-42,254,3656,-310,773,1178,725,-1988,1505,-4684,-110,4814,-3782,-1819,1525,-176,-3058,3227,145,-871,4337,512,159,-3965,1527,-1286,233,3175,-1385,-6354,-1010,9189,-3122,3089,-186,-4209,4394,-2299,-7216,7270,-7319,1349,4105,-5012,8839,-2275,-1061,15,3121,-5375,1784,-4552,2804,-3804,8921,640,-7446,-429,2188,2127,-5522,6043,3205,-5054,3666,-2305,-4440,-1208,5242,778,-3435,4698,-1667,-1351,3439,-3353,-3317,2895,4940,-6005,-372,5053,-5898,-1712,4910,-1288,-5,3669,-5042,3925,-1437,992,2777,-6829,6269,-414,-6732,-55,5755,-5552,-54,6516,-7198,5895,1265,-2383,3881,-8109,3215,183,-1187,4928,-487,-5266,4887,-4193,3923,-7002,283,8512,-8044,7712,-6392,-1156,2668,-3329,4830,-809,4600,-4890,5049,-5910,-2019,7748,-6105,-1113,-1746,2376,-258,-2031,8189,-6144,4422,-3297,3591,-5222,6897,603,-4986,-1084,418,5357,-8674,1572,4807,1049,-5884,2513,3674,1866,-6085,4497,-2868,1485,-1640,-4598,5434,1007,1260,-3760,3326,-6560,4699,-4673,5953,-1911,-4771,6611,-74,-262,-3563,-2279,-712,4684,2696,2165,-4638,-5244,3319,6328,-4048,-4609,8906,-8864,1771,-1438,6048,1145,-8131,2127,6990,-1896,-6553,5342,2298,-6147,658,-1093,5759,-4659,-1598,5277,-3487,6329,-6306,2475,2107,-5360,-2405,8989,-2125,-4436,-197,6943,201,-4800,2335,-1912,-3276,-114,-1080,7565,109,-2592,-4451,6106,532,1314,-1877,-4077,6265,-4113,1682,-6959,4594,-1745,3462,-5040,8300,-1366,-5359,177,4661,-680,2025,-6843,1904,1871,-5274,-264,5253,943,-3368,4476,-1510,-1211,2114,-1725,-625,-2869,-1146,1943,-1646,6982,975,-2117,-25,684,-7860,777,8439,-6923,-1429,352,4636,-3284,4967,-2617,1588,1798,-4351,-137,1292,-4472,2936,222,2917,-6186,5785,-4570,5195,-1790,-2574,7227,-1771,536,-750,-51,-5650,-928,7370,-4420,-3985,3944,3761,-6155,1085,218,2068,-87,389,890,755,-34,-3403,2564,-4427,-188,5241,2884,-3395,-2068,445,-1229,2744,-1687,812,1958,2521,-1684,143,-719,-6989,33,6838,-6581,2790,3179,-5174,5451,1188,-295,987,-4593,-1499,792,-241,4426,-1424,858,-6690,-620,2117,1809,3452,-6342,7155,-5093,1406,2393,-2557,5112,-4693,3526,-5735,-85,6610,-2772,-5529,243,2680,1516,2885,-7357,8794,-4269,-1085,832,944,2035,-5991,272,340,1534,-3204,339,6706,-6177,1410,5316,475,-6625,1808,4148,-6068,6297,-2996,-625,698,909,-5912,5609,-1818,1008,527,-143,-5499,2629,2536,-1443,438,4130,-6404,2607,-3082,-985,3478,3092,-6929,7484,-6013,5742,-5347,1912,687,321,-207,397,16,1959,-1470,-660,3054,-7666,3933,4932,-7133,768,915,-3353,1875,-567,-516,8459,-6005,4586,-1684,675,2216,-4001,669,1431,-4493,-1037,2739,-4235,1492,1787,-1705,3248,-4858,6317,-605,-4358,1014,-1320,-483,7013,-6808,5921,1730,-7221,1454,5084,-4229,1676,723,-3995,313,5593,-8264,8578,-2099,-5332,2784,3597,-711,655,-3401,4979,-2435,-126,1080,947,-1884,-867,-3693,5476,-2209,-3354,-1394,7289,-3196,220,3429,-2675,-5728,1829,2872,-3534,4374,-2001,1339,-79,4783,-1164,-8262,5640,3581,-6353,1660,0,-4642,1807,5055,-1562,-787,4047,-4846,4377,-1771,3206,-1099,-2764,-316,-1462,1539,-2116,-3076,7840,-839,-996,-4120,1853,1010,-3142,2162,3140,-6521,6008,-6795,938,4599,-139,-2263,6276,-1526,-4388,-1969,2173,2406,2552,-7584,969,2873,122,-151,-3021,4465,-5821,837,531,7960,-9242,3972,-29,2632,-5403,2154,458,-3722,7214,-4044,5500,-7960,-1063,2385,103,4195,-4490,303,-2910,8239,-5288,4679,-6175,-1262,1545,-1071,3414,-3737,2211,5043,-2023,-3114,5703,-4437,4478,-1300,-4654,6782,718,-3906,-3395,3942,2256,-694,-3164,246,260,-145,-4804,-167,8369,-3318,-2063,1334,-2682,607,7355,-29,-1303,-1474,-3896,906,-268,3192,242,1897,-6962,-1499,4495,-4808,3351,-1353,1073,1698,3281,-7886,9363,-3951,4132,-6228,-2938,8679,-2095,-1573,-210,-2577,-2753,1019,3291,185,4997,-4793,-4356,1988,3050,3263,-7794,4965,-933,-3443,4758,-2252,-2581,3646,2079,-4922,4566,920,-249,1383,-4507,2946,-6564,7620,1153,-5730,-435,461,-725,9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1552,1584,-3925,4453,-5326,3242,4955,-3490,-1190,-266,6290,-5669,-3059,3841,3600,1639,-3878,-1913,3087,441,2339,-7406,860,-1502,4636,-3681,677,1600,1536,517,607,-5446,5941,-7540,526,8509,-483,-3366,3956,-6925,3252,3142,-319,-3489,-5419,18,2467,5776,-4648,5235,-7084,3855,1873,-6897,5956,-4491,6125,-7260,5439,-5481,3888,4946,-6519,-2526,8965,-8013,-1608,5336,-264,-4632,1687,2554,-1355,-3418,8352,-3503,1732,780,-3554,3952,2047,-846,-3475,-1959,-3291,8037,-8281,3413,-1314,6380,471,-5791,-3055,6648,-2899,3881,-429,-1438,3582,-8831,5286,2272,-4107,5142,-2551,-4340,1496,-1362,-1808,2566,3713,-1845,31,3315,242,-7997,9091,-4419,-619,78,2749,-2522,3175,895,-8671,1577,-1810,3352,3076,-2493,-3939,-173,8055,-2777,-1413,5926,-7651,4735,-4326,3434,-1225,266,-1185,1750,-4168,-418,8361,-2527,880,-814,-5773,-630,3009,-3571,9129,-2956,-1671,-1663,5595,-4467,-2048,2041,2623,-2816,1225,1975,-3886,-1155,7644,-1558,467,-4628,-2818,4432,-2303,6273,324,-7731,462,3896,-2914,5862,-4551,2593,635,572,-8267,8562,-75,205,-749,-3562,-1081,1938,-3433,-1637,6695,-908,-3651,696,5466,-8434,8977,535,-5105,3723,-4780,2478,-31,3668,-8875,2296,605,4972,-7967,212,3901,-1253,4877,-8097,6617,275,162,-1622,1595,733,704,-3843,4603,-2596,-6712,3854,4734,-2322,-4460,5647,-5579,5155,-5971,4588,-3609,6609,-878,573,-4963,5948,-1127,-2268,1688,-2062,-3709,6904,-8726,749,4486,-1183,-2691,4274,241,3554,-3064,-3727,1708,4961,-4625,4650,-9245,7745,-7768,2072,3934,-1390,-42,-4860,531,3252,119,4423,-7397,1883,-2793,222,1172,7836,-6669,-1304,1132,3313,3275,-1541,937,-7911,7395,-2266,-5340,5051,3657,-4886,-1114,-1090,5022,-1294,3110,-8009,4808,-5197,1726,-207,4505,-3437,5521,-5563,1700,-4553,4369,-1543,-1914,-1129,7725,-6413,-688,553,6232,-6919,4085,5116,-4739,2487,-1328,2978,-3837,-2027,5078,-7989,3952,5545,-5601,4774,33,-2209,1484,-8304,6844,-3414,6451,-5504,-1825,1442,3180,-6578,8430,-8007,8312,-287,-64,-4821,5246,-561,-3057,-2579,6694,-7316,2677,-4873,3551,4950,-8596,9120,-5528,2462,-3181,2879,-3300,7199,-6043,-2804,3551,-2346,1618,2101,-1801,3763,-4317,-2208,2538,2887,1292,-3357,3826,-2998,-4065,-180,7101,-7875,1774,-92,7185,-2869,-3258,2800,-4572,8323,-4771,2392,1504,-4491,2791,842,-6847,211,1186,756,284,-3497,1079,-570,869,1048,3509,-3697,6366,-6321,5778,-4749,-1187,4347,-675,-4794,7861,-8488,2278,2246,-4903,6799,1147,-1065,-5824,3796,-3266,1193,794,-3841,1778,1268,-1634,3117,-281,317,2888,-2034,-4869,4406,-2197,2882,2797,-3649,836,2698,1359,-106,-2032,-848,-2266,2141,-5900,1418,6383,-3795,1440,-499,-2720,5808,-1935,-2826,-3877,2719,5866,-87,489,-5373,555,4237,-3132,1555,-1349,-1797,6165,-4628,1073,-4759,1888,2514,-3520,5643,-1703,1570,-2238,3607,-1532,-3164,4306,-1030,841,342,-6923,4132,1150,-1997,999,-726,2731,-6235,6823,-661,-5199,-2916,1555,3225,-2400,-2210,5854,-6292,4002,-535,-2873,8794,-7425,4926,-4999,-1319,3514,851,2652,-3055,-3641,1500,5939,-7670,3880,-423,5676,-9581,4686,-1685,-2976,4980,2641,-2237,1202,1082,-100,-7593,5339,462,-4711,8485,-5330,-1482,1020,358,-1474,538,2891,-2363,669,5259,-6820,4122,-2636,-4054,1782,-1676,-99,5585,-2707,5148,-1056,-5346,3084,-4923,6118,-5497,6236,-5487,760,-1083,434,196,-109,5234,1556,-4179,3447,813,1033,-8433,6931,-5353,6857,-5149,1823,2115,-2140,-3860,4287,1971,538,-2688,-2084,4640,-2178,-1849,-4494,-305,2044,7114,-4288,774,-1362,3644,-1968,-4457,2215,-2049,-1070,1395,4862,-1481,2191,-7057,207,6438,206,-5149,-1259,671,7879,-4914,551,1550,-446,-6654,6108,-374,1477,-950,1626,275,-3721,308,1652,-3920,6953,6,-2809,-4795,6618,-5931,5494,-2839,-39,1741,169,-3279,-1187,-994,2591,-1371,-1753,7429,-8039,4477,1346,-3724,863,1823,-325,1151,20,2595,-6052,2921,3020,1328,-2773,-820,-1227,-3673,8381,-4292,-3068,2860,-429,-302,3018,-5185,6725,-1928,-2482,1609,-2467,1708,-527,201,4256,-2001,504,-3999,2316,-4859,6943,734,-7669,2648,4032,-3287,-3226,5942,-898,2903,-2093,-1486,-1249,-3408,2150,3841,-446,380,2702,-2666,-6951,3268,844,2655,2097,-8691,7289,-4298,1079,3137,13,424,-7600,1232,-10,6153,-892,-4889,-708,5934,-4812,7405,-5238,-2885,654,-1713,2271,584,1719,3949,-4520,-2331,-2361,2167,6791,-576,946,-3707,-2687,1326,1342,193,-2199,-2404,7818,-7687,3470,-4702,2904,-1635,4146,-3171,3760,-59,182,2846,-2794,-2635,-3222,1019,2284,5132,-4412,-1061,3095,2545,-5216,1278,3494,-6163,805,-768,1379,771,3613,-4650,5864,-3260,3657,-8748,8499,-5698,30,2327,-6248,3809,1840,2991,-4581,-3138,3704,-1888,4883,-896,-359,-2225,1494,1999,-5786,5126,-5247,-138,-1110,628,4957,-4650,2994,2056,-128,-2164,776,-2125,-71,6914,-2711,-6319,2967,-1956,3985,2815,-3417,1714,-5159,-1342,3290,-1262,-553,4147,-4334,620,4897,-5714,5341,-6782,8994,-2258,-2106,1686,-4997,3334,-187,-2194,2099,2511,-974,-688,3374,-1195,-1247,-3972,-557,4352,-3526,2542,-2248,4160,-6041,978,5102,820,-1430,3489,-846,-6424,4136,1003,-3124,3443,-3683,-307,-3765,2535,2839,-5450,7019,-1673,3541,-6512,5284,532,1453,-9425,1766,1045,1762,3989,237,-4115,-4317,6928,-2673,-4613,9555,-6039,-206,-1071,1553,-2035,7240,-3874,-2416,2800,-2711,-704,2175,-3357,62,92,4362,-2022,896,-3972,7687,-6940,8114,-4762,-4277,8390,-4237,295,-4854,1274,4210,3621,-3926,4179,-4518,4691,-2509,2777,-5458,2818,-4039,5636,900,-3016,-5214,1224,2293,2912,-7509,4950,3562,-2176,-5606,8560,-9513,8535,-4169,924,-5376,5633,3469,-6567,-1810,8143,-7468,-143,7733,-4730,3280,-1913,-5335,556,6013,-939,-2760,4543,1962,-3290,-1191,-462,-2295,444,5946,-529,1114,-5575,-3749,1100,3492,-4522,3509,-1182,-894,3434,-3635,-1104,4977,279,735,-3301,-655,4360,-6063,6657,1317,509,0,269,-4622,1739,-1987,-4611,8406,-5013,4520,-1834,3108,-4754,-3684,711,1279,4887,-245,-3444,2211,1064,-581,-1030,3873,-4067,2019,-6866,6125,874,-2973,-4095,6408,-515,-377,-5628,2945,6190,347,-1172,-3574,-734,2655,640,-3867,-485,-1238,2766,-255,226,1543,-2172,2324,3410,-182,-9008,1064,4355,-2206,-1246,-2237,5033,-4361,6673,-7768,4369,2435,750,-339,-2298,4825,-917,-3661,628,-5561,5106,-5303,7317,125,960,-621,836,-1343,-4653,3546,-4696,4989,-286,546,-896,-1654,-4182,8524,-8194,7984,-6640,352,6112,-1147,71,-2402,-1836,5689,-8177,7576,1535,-1335,-7022,5788,75,283,-5386,-1970,1244,1910,4893,-1173,-5822,134,5369,122,-897,-980,-2037,5242,-5150,-683,3846,-4847,7308,-1409,-2191,1065,-3168,-1261,3857,-1022,4559,-3081,-1016,2449,2097,-2638,1115,-4163,1221,-2297,1280,6054,-8182,5931,-2872,-1756,-2115,7509,-4010,-403,669,3067,-5209,4821,-5212,-138,893,5193,844,-4322,4726,-1785,-5829,7389,-8814,1570,2842,4032,-2094,-3699,-404,6109,-179,220,-6005,4951,-2142,563,1937,-7648,9020,-1887,-4531,6971,-5536,-3843,4018,-301,4591,575,-6481,6344,-3318,-16,-2032,-435,6346,-2330,-6867,-486,6537,984,1218,-8485,9005,517,-7226,986,2406,-4155,6806,870,-2851,-2123,1691,1698,-5542,2197,2735,-2799,-2724,1234,-472,2643,-3071,7687,-1961,-1632,-4800,2524,-3639,354,1898,3862,-3543,4867,893,-1910,898,-6791,6956,-1371,-4948,-717,8439,-5738,2558,2533,-4390,4812,-1337,1239,-3960,-834,1525,-5605,6815,1852,-4405,-861,5930,-2932,-1159,1855,2069,-2516,-2504,249,4616,-1638,-4425,-2044,4949,2417,-1176,-2791,5372,-283,-8003,8286,-557,-2576,3149,-5380,-1604,-857,7836,-2876,-489,-1442,-541,-1472,-2803,4586,1280,-2334,652,-1542,1000,2330,-5496,8793,-1144,231,-667,-4148,-2996,83,2149,6295,-8956,1183,3705,-1010,-2286,3572,-1886,-787,5867,-940,-7719,9056,-4898,3632,-1530,-4769,3711,-4695,2000,4137,593,-2056,-3501,1265,6480,-9186,2724,6160,-612,-6116,735,3411,-4146,2582,2011,1664,-2028,-2924,4954,-1661,-960,902,1227,925,-1518,-6275,5074,-4897,4130,-758,-596,831,3136,-1500,3196,-4631,2182,776,-3889,-2025,5117,-3025,2077,-4010,2664,-2711,7212,-6448,1001,-3349,3815,-4322,8815,-6688,-1217,8219,-6684,3446,255,1691,-3973,-3660,1058,2427,1893,2850,-4946,1293,-4237,2662,-3035,403,433,-1150,9115,-66,-9150,5710,-5598,8673,-3022,2519,-398,-973,-327,-2136,4670,-4772,-958,-2107,3991,-4870,3937,2741,-3180,3368,2488,-2629,-410,1363,-5587,6244,-6478,4660,-265,754,-1338,2708,-3543,-1047,-3137,8810,-3769,699,-2276,2209,473,-6286,-355,2668,6615,-1322,921,405,-8208,7565,-7315,4318,2048,-4094,3917,-6454,1844,-2680,6659,-4418,-1310,7998,-7477,4242,-6422,7513,40,-1320,-5368,4193,-2292,15,3107,-5062,-722,3578,1179,1175,2598,-521,-318,-5605,-1319,-316,5118,399,424,1875,-3363,3439,-6614,1143,6036,-6826,3728,1878,-6881,7494,-8112,6973,1297,-505,-6550,2684,-355,-2820,715,6129,-1928,-4356,1536,-1101,1031,-445,-1817,4890,-4028,-1049,2654,4730,-2253,-1668,-3703,4279,1863,-1923,-2127,5507,-5714,3763,-3966,7032,-331,-5159,5176,-5312,3642,2261,-171,-2293,-5483,3400,-4919,2187,6348,-464,-1624,-845,-78,1386,-3339,5967,-3674,1126,-2241,-972,-1248,3942,-5829,-206,6463,1103,-1810,2821,-7208,595,7116,-2401,-6800,-362,4213,5525,-462,-2760,769,-457,-2341,4524,40,-6852,7725,-7692,2736,-4053,1979,-1131,1867,2307,-5357,2760,4459,-2512,-3049,-45,1644,462,3715,-7948,5316,-5235,8192,-355,-4565,6029,-1418,-53,-1898,2892,-3869,-4120,1353,6655,-4614,3383,-1020,-5159,334,858,6972,117,-5794,-1847,6405,-6522,3078,-5038,8358,-2653,1134,-5479,-353,7257,-4170,-1357,958,-2353,-792,4414,-1430,2812,-1028,-1967,2154,-1713,-2841,7595,-4837,4538,-6496,6350,1414,-6440,4331,-240,-6334,3505,-2316,2887,1605,-107,-2387,2656,-2251,5187,191,-3158,-1627,-2210,-1103,5371,-4386,6733,-3254,-4616,1505,-2822,3074,-852,5848,-6027,6262,-5197,-753,5031,-2222,-1057,-644,4140,-2043,4040,-2712,-453,-58,-4404,4700,-5038,5127,-6931,8946,-5305,3188,-1826,847,2309,-8065,7952,-7853,2995,-3399,1808,2586,-2333,-817,4502,-4864,336,6330,-4941,4661,1634,-6069,622,-2106,-614,2823,5024,-1716,75,-4611,-717,8265,-5316,-2873,6683,-7671,1933,-486,-1387,3422,4569,-1679,2172,-2921,-1657,745,-4748,6350,-3169,6024,-2913,-2071,3592,965,-4834,-4517,9652,-5753,1775,-3998,-1215,8074,-1744,-1430,2371,-4489,5563,-7256,7230,-1064,-4886,-2474,1607,4720,-4968,5527,-7010,353,119,5306,-5423,-426,2787,6161,-6200,6147,-6012,6367,-4863,-3097,3073,-2187,1930,4055,-7531,6399,-558,-1308,-3688,6662,-1154,-3838,4567,-3667,-3893,8971,-2225,-836,2663,886,-4778,3220,920,-5294,731,-4582,3296,-1875,-1251,1030,2737,-2850,3034,-3301,1846,5220,-3471,4438,-5608,5010,-6871,-336,5163,-5513,8691,-1841,-5504,2402,2095,-3509,3829,-376,-1128,-769,-1269,-354,-158,481,4823,232,1025,-2319,-6802,5708,-1705,4180,-1054,-6840,8155,-4778,1096,-151,4716,-4695,2023,2296,-343,-3799,4177,-1077,-1735,-1475,-384,-4096,5947,724,1850,-2192,-5071,2836,-2970,1250,4110,1641,-1102,-823,-2510,2581,1487,961,-9031,-191,976,3919,1484,2963,-5194,446,-2941,7202,-3622,4465,-361,-6916,-2367,6988,-5949,7367,-6791,5465,-6778,7597,-708,-1978,1124,1009,-681,2818,-1553,-1880,-3642,-381,812,4254,-6273,8656,-8205,-254,1092,7715,-4820,-4775,3485,5606,-1727,-1954,-4584,13,4915,-1839,2878,-3954,5545,-7633,1586,-2636,9380,-7467,4879,1307,-4771,3635,-4003,3401,-4759,7330,-8369,6924,1428,-5453,84,-932,3877,-5120,8567,-6175,3288,1386,-5394,6649,-1837,-2100,-2422,-2486,509,2966,3066,1937,-980,-6769,1687,751,-1777,3187,663,-447,-3840,-1532,6901,-5176,4804,197,2811,-428,-3799,2487,-7480,-516,-97,4940,439,2275,1171,-4314,-1976,-2508,1860,4011,-4236,2489,895,-4803,1681,1472,4104,-3316,-3598,7898,191,-5317,4509,-1629,1141,-3082,60,5394,-3072,-2914,5915,-2107,1291,-3783,-4942,9562,226,-3504,-2463,5806,-1551,-5739,-1260,6824,-3487,-2997,6009,-5059,938,4834,200,229,-7105,7515,498,-5340,2560,-1862,921,-816,-2375,6768,-7236,7441,-8349,-673,4155,887,-1461,955,-3462,2486,3967,-842,-5727,-623,6598,-343,-335,-5757,6447,-4429,3907,1015,-3369,3838,-918,-672,1370,-7953,2185,4144,2114,-5119,-2939,9141,-4530,3125,-4154,-4009,6801,-4034,2453,-3540,3053,-526,-4115,-303,8156,-5524,2538,-796,901,-4389,8183,-2789,47,1914,733,-7740,4446,-2128,233,2675,-2556,1740,1253,410,-7335,8181,-8203,6484,-925,-44,-2531,3330,-540,-4773,6221,-5429,3519,3379,-7984,2004,1126,-1492,1877,1007,-5034,2036,6021,-5752,5024,-998,2720,-3889,-5060,6904,-5230,6371,-3446,-4937,6148,-4130,4386,1642,-7634,1738,-1386,2879,1325,-529,1557,3342,-6882,2946,2370,-2440,1703,-183,1099,246,-385,-4670,-2459,6283,-5868,-19,2016,1361,2832,-563,-415,2197,-446,1002,-6961,3498,-2739,5524,-6642,122,7952,-3839,-5536,7849,-984,2331,-8904,6465,-4194,543,-3295,3831,52,1139,2705,-2122,1421,2592,-9522,5836,157,3556,-2740,-819,299,-214,2371,-1132,-5061,2095,-1096,-2136,-512,8171,-2560,-2253,155,-3337,301,-1014,5874,-2027,4125,-6061,7350,-2416,-3730,-1636,600,774,3837,-2740,556,3803,-8243,2345,2625,-5444,4056,-2009,3994,911,-5749,-338,7030,-3871,2225,582,7,-6620,3040,6162,-7498,1290,3039,1345,-4219,-2094,7933,-4143,-1218,683,5221,-1162,-5260,6255,-4389,2404,-1746,-5462,-135,-96,8259,-5563,4379,-3357,4044,-1173,-134,-3887,2050,-2649,2677,3592,-1132,-1465,-81,2655,-5748,-960,5090,-4756,-1408,6660,1742,-8257,8366,-4361,710,2924,-8296,6193,-4735,3734,652,261,-1613,-3801,393,181,2491,202,5180,516,-2311,-2322,-2727,2948,4143,4,-3638,-698,1147,3178,-452,-1564,-7382,7410,2148,-7666,969,-988,-1845,7335,-3211,-3526,7633,-2959,2614,-709,-5504,-1112,1790,6939,-7369,5049,-4960,6077,1440,-9100,3535,-59,-4051,8027,1423,268,-7816,-83,7736,-5792,1777,963,-5383,5524,-924,-2119,5221,-5888,-1936,5587,903,1820,-8060,1677,-82,2529,-3860,5440,1217,-4785,-132,-705,5682,-23,264,-8450,1139,7635,1141,-8336,942,441,5216,-1572,-243,448,-6515,3555,-3329,1984,1003,5160,-1575,-1953,2875,-222,-6213,1366,5658,-1173,-4947,206,2634,-167,3636,912,-5136,2893,2229,-9575,8895,352,-4409,3674,-5696,567,1788,-747,-1311,214,4805,-5157,4026,-4413,7165,-7098,-2686,6498,-1104,3828,-1809,-2193,-4036,2149,6542,-2053,-4027,5998,-6465,-3390,5625,2806,-4401,4074,-8035,4993,-4602,5885,-1056,2531,-4717,3658,-4787,-1742,5737,-4718,1562,6420,-838,-5625,-286,2213,4543,-8983,1886,5705,-3813,5809,-919,-784,-2206,-627,1723,2752,-8574,8144,-3135,-5401,1211,6533,-3023,-4888,8195,0,-2987,-3474,-965,6005,1722,-3529,158,949,-2443,-3008,8465,-3190,2521,-3818,1473,-1115,-3776,264,415,4906,-4554,4985,-5371,7321,-9659,9054,182,-3329,-3310,6008,-4708,3739,1861,-7110,5972,-353,-6636,-984,1736,527,-2333,9009,-3898,-744,-2122,3514,-1494,-2251,1217,4052,-4029,681,-4334,8489,-6499,2700,1470,-3190,3548,-2291,-441,-3605,1140,8027,-6904,-135,667,4250,-3555,4713,-2911,1754,2098,-6062,5617,-6330,3484,-2208,-792,6716,-6705,6528,-3158,-3022,4820,-1408,-5700,8109,-109,-6960,-1682,7402,-2196,-2046,4210,1510,-752,-4123,-4493,1258,-1218,3376,4109,-4379,2472,3282,-2031,-6180,5153,3615,-9056,16,9455,-6954,-2028,7731,-8246,193,9280,-6374,590,-1047,5927,-259,-7705,3213,-920,2405,-2128,2410,-2175,-253,-2455,7339,332,-7486,-1251,1446,2089,2728,-5713,-44,8326,-6549,2340,3322,1445,-5859,-1534,1077,-2309,5571,-2677,5472,608,-9082,4600,512,-381,-5188,9664,-1566,-5177,-2503,7694,-6719,2818,-3583,9081]