(n+1) is not divisible by any digit of n

Hello SeqFans,

We want (n+1) not to be divisible by any digit of n [with (n+1) the smallest integer not yet present in the seq.]

S = 2, 3, 4, 5, 6, 7, 8, 9, 20, 23, 25, 27, 29, 33, ~~34, 35, 37, 38, 43, 46, 47, 50, 52, 53~~, ...

No integer with a "1" digit can enter S, of course, and all primes will appear -- except the ones containing a "1".

Best,
É.

_____

[**Maximilian Hasler**]:

Bonsoir Eric,

Je pense qu'une erreur s'est glissée dans tes calculs ; au lieu du 34 je trouve 22 :

```
EA(Nmax)={my(a=[],d=[0],u=0,nd); while( #a<Nmax, for( t=2,9e9, bittest(u,t) & next;
for(i=1+!d[1],#d, t%d[i] || next(2)); nd=Set(digits(t)); setsearch(nd,1) & next; a=concat(a,t);
u+=1<<t; d=nd; print1(t",");break));a}
```

EA(100) = 2, 3, 4, 5, 6, 7, 8, 9, 20, 23, 25, 27, 29, 33, 22, 35, 26, 37, 32, 43, 34, 38, 28, 39, 40, 30, 44, 42, 45, 46, 47, 50, 24, 49, 53, 52, 57, 36, 55, 48, 54, 58, 59, 56, 62, 63, 64, 65, 67, 68, 69, 70, 60, 73, 74, 66, 75, 72, 79, 76, 80, 77, 78, 82, 83, 85, 84, 86, 87, 89, 92, 93, 88, 90, 94, 95, 96, 97, 200, 99, 98, 202, 203, 205, 207, 209, 223, 227, 225, 229, 233, 235, 239, 245, 237, 247, 243, 253, 257, 249, ...

P.-S.
Il me semble que ta version correspond à "a(n+1)>a(n)" et non pas à "a(n+1) pas encore utilisé".

_____

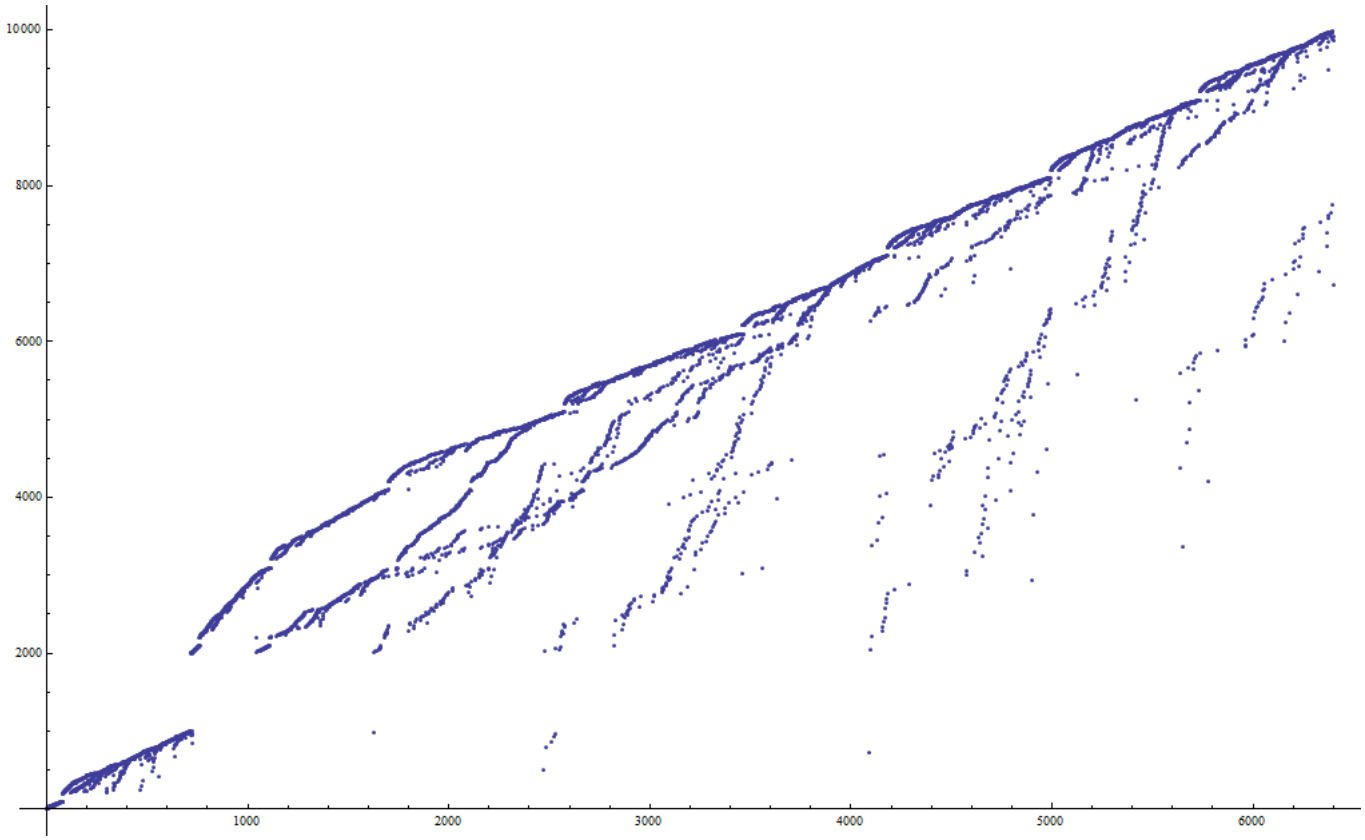
Yes, Maximilian is right; the above **S** sequence is the one where we want "a(n+1)>a(n)" and not "(n+1) is the smallest integer not yet present in the seq." - which is exactly the one computed by Maximilian. [The monotonically increasing sequence is now https://oeis.org/A217491.]

Many thanks for the correction, Maximilian,
Best,
É.

_____

October 5th update

[**Jean-Marc Falcoz**]:



First 10.000 terms of EA(Nmax), computed by **Jean-Marc Falcoz**, and the subsequent graph (above); this is now https://oeis.org/A217489 :

{2, 3, 4, 5, 6, 7, 8, 9, 20, 23, 25, 27, 29, 33, 22, 35, 26, 37, 32, 43, 34, 38, 28, 39, 40, 30, 44, 42, 45, 46, 47, 50, 24, 49, 53, 52, 57, 36, 55, 48, 54, 58, 59, 56, 62, 63, 64, 65, 67, 68, 69, 70, 60, 73, 74, 66, 75, 72, 79, 76, 80, 77, 78, 82, 83, 85, 84, 86, 87, 89, 92, 93, 88, 90, 94, 95, 96, 97, 200, 99, 98, 202, 203, 205, 207, 209, 223, 227, 225, 229, 233, 235, 239, 245, 237, 247, 243, 253, 257, 249, 255, 259, 263, 265, 267, 269, 273, 275, 277, 279, 283, 287, 285, 289, 293, 295, 299, 303, 206, 297, 305, 208, 307, 220, 309, 224, 323, 325, 329, 335, 226, 327, 337, 230, 343, 238, 347, 242, 333, 232, 349, 250, 339, 236, 353, 244, 345, 254, 357, 248, 355, 256, 359, 262, 363, 260, 365, 266, 367, 268, 369, 272, 373, 274, 375, 278, 377, 284, 379, 286, 383, 290, 385, 292, 389, 298, 393, 280, 387, 302, 395, 296, 397, 304, 322, 403, 326, 407, 222, 399, 308, 332, 409, 246, 405, 234, 425, 423, 427, 429, 433, 334, 338, 340, 346, 350, 328, 437, 358, 356, 344, 362, 439, 370, 320, 443, 374, 382, 445, 258, 447, 270, 435, 386, 364, 394, 398, 380, 388, 404, 282, 449, 294, 453, 406, 422, 455, 306, 352, 457, 342, 463, 430, 434, 442, 459, 354, 446, 454, 366, 368, 428, 465, 458, 378, 436, 466, 467, 470, 330, 376, 400, 390, 392, 469, 473, 475, 402, 477, 426, 479, 438, 478, 450, 462, 483, 482, 485, 474, 486, 487, 489, 490, 493, 494, 497, 498, 499, 502, 503, 424, 495, 506, 448, 505, 204, 507, 228, 509, 264, 523, 527, 529, 533, 452, 537, 464, 525, 539, 472, 535, 476, 526, 543, 538, 484, 522, 547, 534, 542, 549, 546, 553, 488, 530, 496, 545, 554, 557, 276, 555, 252, 559, 336, 440, 550, 288, 563, 508, 324, 565, 524, 567, 536, 532, 569, 544, 558, 348, 562, 573, 548, 566, 556, 568, 572, 577, 372, 575, 384, 574, 578, 396, 460, 579, 408, 570, 432, 583, 586, 587, 444, 582, 589, 492, 593, 584, 594, 597, 456, 598, 564, 599, 528, 603, 500, 468, 585, 588, 596, 592, 607, 520, 609, 560, 602, 595, 552, 623, 605, 604, 590, 606, 580, 622, 625, 627, 629, 633, 608, 620, 635, 626, 637, 628, 639, 632, 643, 634, 638, 644, 645, 646, 647, 649, 650, 652, 653, 656, 657, 659, 658, 662, 655, 663, 640, 665, 664, 667, 668, 669, 670, 673, 674, 675, 676, 677, 680, 679, 682, 683, 685, 686, 687, 689, 692, 695, 688, 693, 694, 697, 698, 699, 700, 240, 703, 704, 642, 705, 576, 706, 709, 300, 707, 360, 722, 723, 725, 727, 729, 733, 724, 737, 730, 734, 739, 736, 740, 654, 742, 743, 745, 666, 728, 747, 678, 746, 753, 748, 690, 735, 752, 757, 624, 749, 726, 755, 636, 754, 702, 759, 696, 758, 684, 763, 760, 764, 765, 766, 767, 769, 772, 773, 775, 648, 770, 480, 630, 776, 778, 540, 738, 779, 600, 777, 660, 782, 783, 785, 708, 732, 787, 750, 744, 762, 789, 780, 774, 786, 788, 790, 768, 793, 794, 795, 796, 797, 799, 800, 420, 803, 802, 805, 756, 806, 807, 804, 798, 809, 820, 823, 827, 825, 829, 833, 826, 835, 836, 830, 838, 839, 842, 837, 844, 822, 843, 845, 834, 847, 846, 849, 850, 828, 853, 854, 857, 852, 859, 858, 862, 855, 863, 860, 865, 866, 867, 869, 868, 873, 874, 870, 876, 877, 878, 879, 883, 875, 884, 882, 885, 886, 887, 890, 889, 892, 893, 895, 894, 897, 898, 899, 902, 903, 784, 905, 672, 907, 808, 900, 824, 909, 832, 923, 925, 929, 933, 848, 906, 856, 908, 922, 935, 872, 927, 937, 880, 924, 939, 896, 926, 943, 934, 938, 932, 947, 930, 904, 942, 949, 946, 950, 888, 940, 953, 928, 955, 944, 957, 948, 958, 956, 952, 959, 962, 965, 964, 967, 920, 969, 968, 970, 960, 973, 974, 975, 976, 977, 978, 979, 982, 983, 980, 966, 985, 986, 987, 988, 989, 993, 992, 995, 984, 994, 997, 996, 998, 2002, 945, 2003, 2005, 963, 2000, 999, 840, 954, 2006, 2007, 2025, 2009, 2023, 2027, 2029, 2033, 2035, 2039, 2045, 2037, 2047, 2043, 2053, 2057, 2049, 2055, 2059, 2063, 2065, 2067, 2069, 2073, 2075, 2077, 2083, 2087, 2085, 2079, 2089, 2093, 2095, 2099, 2203, 2207, 2097, 2209, 2225, 2223, 2227, 2229, 2233, 2237, 2239, 2243, 2245, 2247, 2235, 2249, 2253, 2257, 2259, 2263, 2255, 2267, 2265, 2269, 2273, 2279, 2283, 2275, 2277, 2285, 2287, 2293, 2297, 2299, 2289, 2303, 2305, 2309, 2323, 2327, 2329, 2333, 2335, 2339, 2345, 2347, 2353, 2357, 2363, 2359, 2369, 2365, 2377, 2375, 2383, 2387, 2389, 2393, 2395, 2399, 2405, 2307, 2407, 2295, 2337, 2423, 2425, 2343, 2429, 2325, 2437, 2435, 2443, 2447, 2349, 2449, 2355, 2453, 2459, 2373, 2455, 2367, 2465, 2379, 2467, 2385, 2473, 2477, 2397, 2479, 2409, 2427, 2403, 2483, 2485, 2433, 2489, 2445, 2439, 2495, 2463, 2497, 2469, 2487, 2475, 2493, 2503, 2507, 2509, 2499, 2505, 2457, 2523, 2527, 2529, 2533, 2537, 2539, 2543, 2549, 2553, 2557, 2547, 2559, 2563, 2567, 2573, 2579, 2577, 2587, 2589, 2569, 2593, 2597, 2599, 2603, 2525, 2583, 2609, 2535, 2623, 2545, 2607, 2565, 2627, 2575, 2629, 2555, 2633, 2585, 2637, 2605, 2639, 2635, 2647, 2595, 2643, 2645, 2649, 2625, 2653, 2657, 2659, 2663, 2665, 2667, 2655, 2669, 2675, 2673, 2677, 2679, 2683, 2687, 2685, 2689, 2693, 2695, 2697, 2699, 2703, 2705, 2707, 2725, 2727, 2729, 2733, 2735, 2743, 2747, 2739, 2749, 2753, 2759, 2757, 2763, 2755, 2767, 2745, 2769, 2773, 2777, 2775, 2783, 2785, 2787, 2789, 2795, 2797, 2803, 2723, 2809, 2737, 2825, 2709, 2805, 2779, 2823, 2765, 2799, 2827, 2829, 2793, 2833, 2807, 2837, 2839, 2843, 2845, 2847, 2853, 2849, 2855, 2857, 2859, 2863, 2867, 2865, 2869, 2873, 2875, 2879, 2883, 2885, 2877, 2887, 2889, 2893, 2897, 2895, 2899, 2903, 2905, 2909, 2923, 2927, 2929, 2933, 2935, 2939, 2945, 2937, 2953, 2947, 2949, 2955, 2957, 2959, 2963, 2965, 2967, 2969, 2973, 2977, 2983, 2975, 2987, 2985, 2989, 2993, 2995, 2999, 3003, 2008, 2205, 2907, 3005, 2024, 2835, 3007, 2020,

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3369, 2294, 3385, 2302, 3389, 2300, 3395, 2296, 3387, 2306, 3397, 2308, 3403, 2326, 3407, 2330, 3409, 2338, 3425,
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3467, 2398, 3469, 2402, 3375, 2332, 3473, 2426, 3393, 2320, 3475, 2434, 3479, 2438, 3485, 2422, 3399, 2324, 3487,
2446, 3405, 2458, 3423, 3493, 2450, 3429, 3497, 2462, 3435, 2474, 3447, 2470, 3453, 2482, 3459, 2486, 3465, 2494,
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2428, 3525, 3563, 2408, 3543, 2554, 3549, 2558, 3567, 2432, 3565, 2444, 3555, 2452, 3569, 2456, 3573, 2468, 3575,
2476, 3579, 2488, 3577, 2504, 3583, 2492, 3585, 2524, 3587, 2564, 3589, 2548, 3593, 2464, 3595, 2528, 3597, 2536,
3599, 2552, 3603, 2360, 3605, 2566, 3607, 2420, 3609, 2380, 3623, 3625, 3629, 3635, 2572, 3627, 3637, 2440, 3633,
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3669, 2588, 3673, 2596, 3677, 2600, 3645, 2602, 3655, 2606, 3665, 2608, 3675, 2624, 3679, 2620, 3683, 2590, 3687,
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2660, 3773, 2756, 3807, 2762, 3795, 2764, 3805, 2674, 3809, 2702, 3823, 3787, 2770, 3825, 3827, 3833, 2758, 3837,
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2768, 3907, 2776, 3909, 2792, 3923, 3925, 3929, 3935, 2824, 3927, 3937, 2840, 3933, 2800, 3939, 2848, 3943, 2894,
3945, 2902, 3947, 2906, 3949, 2926, 3953, 2864, 3955, 2872, 3957, 2888, 3959, 2896, 3963, 2900, 3965, 2908, 3967,
2920, 3973, 2924, 3975, 2932, 3977, 2930, 3979, 2936, 3983, 2938, 3985, 2942, 3989, 2948, 3993, 2944, 3995, 2954,
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4525, 4437, 3622, 4535, 3598, 3284, 4543, 3626, 4547, 2574, 4443, 3634, 3638, 3260, 4549, 2562, 4449, 2550, 4467,
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3782, 4603, 3790, 3296, 4607, 3802, 4609, 3794, 3806, 3380, 3388, 3404, 3826, 4625, 4557, 2802, 4575, 2826, 4587,
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3886, 3476, 3890, 3484, 3878, 3508, 3524, 4649, 3898, 3500, 3304, 3902, 4645, 3922, 4655, 3926, 4657, 3938, 3532,
4663, 3934, 3946, 3950, 3328, 4667, 3958, 3548, 3962, 4669, 3970, 3320, 4673, 3974, 3982, 4675, 3986, 3556, 3344,
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2958, 4723, 4727, 4729, 4733, 4262, 4725, 4737, 4274, 4735, 4282, 4739, 4286, 4743, 4294, 4745, 2994, 4747, 2970,
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4809, 3390, 3448, 4522, 4827, 4833, 4526, 4839, 4534, 4538, 4546, 4558, 3366, 3464, 4550, 3402, 4843, 4562, 4847,
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3522, 4859, 3534, 4634, 4630, 4642, 4855, 3546, 4646, 4654, 4658, 4666, 4670, 4678, 4682, 4863, 4690, 4694, 4702,
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4883, 4766, 4778, 3630, 3488, 4774, 3642, 4865, 4786, 4790, 3666, 3496, 4798, 3678, 3652, 4879, 3702, 4885, 3654,
4802, 4887, 3690, 3520, 4889, 3570, 3536, 3544, 4822, 4893, 4826, 4895, 3738, 3676, 3560, 3568, 3668, 3692, 4897,
3750, 3592, 4903, 4834, 4838, 4846, 4850, 3726, 4909, 3774, 4862, 4899, 3786, 3700, 3608, 3724, 4925, 4907, 3846,
4858, 3762, 4927, 4929, 4933, 4870, 3798, 3740, 4874, 3834, 4882, 4905, 3822, 4937, 4894, 3858, 3748, 4898, 3882,
4939, 4886, 4906, 4922, 4935, 4934, 4930, 4942, 4943, 4945, 3894, 4946, 4947, 3930, 3584, 4949, 3954, 4954, 3966,
3632, 4955, 4002, 4923, 4957, 4026, 4953, 4958, 4038, 4963, 4966, 4965, 4967, 4969, 4970, 4062, 4959, 4074, 3870,
3764, 4973, 4975, 4098, 3990, 3640, 4978, 4206, 4977, 4254, 4979, 4278, 4983, 4982, 4985, 4242, 4987, 4290, 4989,
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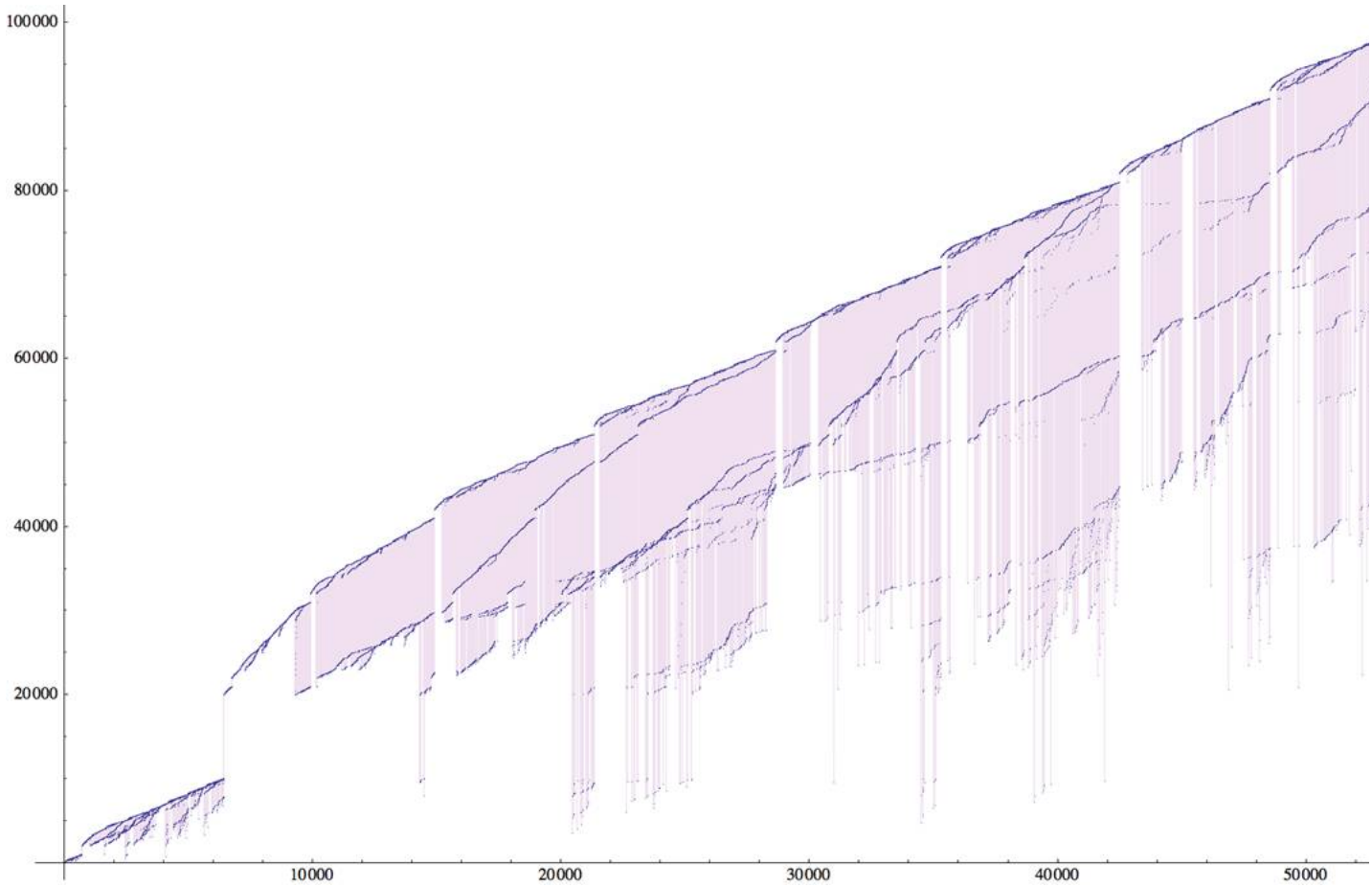
[**Hans Havermann**]:

> No integer with a "1" digit can enter S (...)

Nor can any positive multiple of 2520.

Here's a graph of 54637 points:



Merci Jean-Marc, Maximilian et Hans !