

The *PrimeLatz* conjecture

(a tribute to Lothar [Collatz](#))

Start from any integer N.
 If N is even, divide N by 2.
 If N is odd, add to N the next 3 prime numbers > N.
 Iterate.
 Conjecture: all N's will enter in a loop, sooner or later.

The prime numbers < 1000 are:

2	3	5	7	11	13	17	19	23	29	31	37
41	43	47	53	59	61	67	71	73	79	83	89
97	101	103	107	109	113	127	131	137	139	149	151
157	163	167	173	179	181	191	193	197	199	211	223
227	229	233	239	241	251	257	263	269	271	277	281
283	293	307	311	313	317	331	337	347	349	353	359
367	373	379	383	389	397	401	409	419	421	431	433
439	443	449	457	461	463	467	479	487	491	499	503
509	521	523	541	547	557	563	569	571	577	587	593
599	601	607	613	617	619	631	641	643	647	653	659
661	673	677	683	691	701	709	719	727	733	739	743
751	757	761	769	773	787	797	809	811	821	823	827
829	839	853	857	859	863	877	881	883	887	907	911
919	929	937	941	947	953	967	971	977	983	991	997

Let's start with 1:

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1 is odd; we add to 1 the next 3 primes (2,3,5) and get 11
11 is odd; we get 11+(13+17+19)=60
60 is even; we get 30
30 is even; we get 15
15 is odd; we get 15+(17+19+23)=74
74 is even; we get 37
37 is odd; we get 37+(41+43+47)=168
168 is even; we get 84
84 is even; we get 42
42 is even; we get 21
21 is odd; we get 21+(23+29+31)=104
104 is even; we get 52
52 is even; we get 26
26 is even; we get 13
13 is odd; we get 13+(17+19+23)=72
72 is even; we get 36
36 is even; we get 18
18 is even; we get 9
9 is odd; we get 9+(11+13+17)=50
50 is even; we get 25
25 is odd; we get 25+(29+31+37)=122
122 is even; we get 61
61 is odd; we get 61+(67+71+73)=272
272 is even; we get 136
136 is even; we get 68
68 is even; we get 34
34 is even; we get 17
17 is odd; we get 17+(19+23+29)=88
88 is even; we get 44
44 is even; we get 22
22 is even; we get 11... entering thus in a loop.

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Best,

É.

(Please have a try with 83...)

A couple of hours after this was posted, had **Hans Havermann** computed the future of a lot of integers, noting that they were all ending in the loop above (starting here with the smallest integer, 9):

[**Hans Havermann**]

Confining myself to iterative chains where all members are less than 100 million, I find no loops other than your:
 {9, 50, 25, 122, 61, 272, 136, 68, 34, 17, 88, 44, 22, 11, 60, 30, 15, 74, 37, 168, 84, 42, 21, 104, 52, 26, 13, 72, 36, 18}.

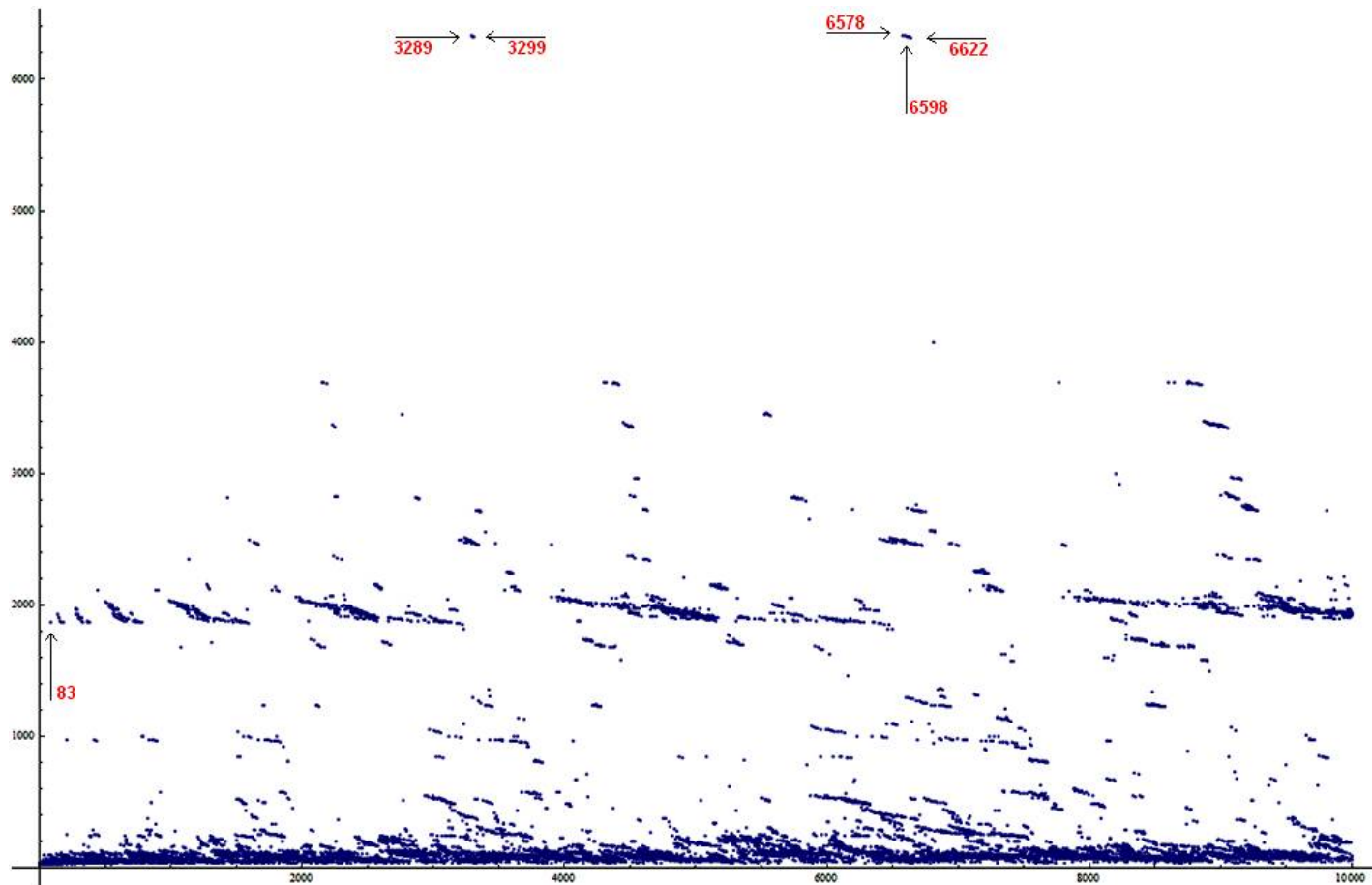
Jean-Marc Falcoz was quick to send this too (in French):

[Jean-Marc Falcoz]:

Ci-dessous, voici les 10 000 premiers termes : {1,30} signifie que 1 rentre dans une boucle après la 30e itération.

Parmi ces 10 000 termes, le maximum est 6578, qui boucle après 6333 itérations.

Je joins le graphe.



b-file by **Jean-Marc Falcoz** (first 10 000 terms of the *PrimeLatz* conjecture and number of iterations needed to enter the above loop):

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