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A062693   Squarefree n such that the elliptic curve $n*y^2 = x^3 - x$ arising in the "congruent number" problem has rank 3. [4]

1254, 2605, 2774, 3502, 4199, 4669, 4895, 6286, 6671, 7230, 7766, 8005, 9015, 9430, 9654, 10199, 10549, 11005, 11029, 12166, 12270, 12534, 12935, 13317, 14965, 15655, 16151, 16206, 16887, 17958, 18221, 19046, 19726, 20005, 20366

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OFFSET	0,1
COMMENTS	Conjectural, as detailed in the pages from which it is extracted (see the first few links at the web site mentioned for details), but the conjecture is supported by much numerical and theoretical evidence.
LINKS	[Table of n, a(n) for n=0..34.](#)
	A. Dujella, A. S.Janfeda, S. Salami, [A Search for High Rank Congruent Number Elliptic Curves](#), JIS 12 (2009) 09.5.8.
	N. D. Elkies, [Algorithmic (a.k.a. Computational) Number Theory: Tables, Links, etc.](#)
	Fidel Ronquillo Nemenzo, [All congruent numbers less than 40000](#), Proc. Japan Acad. Ser. A Math. Sci., Volume 74, Number 1 (1998), 29-31. See Table IV p. 31.
PROG	(PARI) r(n)=ellanalyticrank(ellinit([0, 0, 0, -n^2, 0]))[1]
	for(n=1, 1e4, if(r(n)==3, print1(n", "))) \\ [Charles R Greathouse IV](#), Sep 01 2011
CROSSREFS	Cf. [A062694](#), [A062695](#).
	Sequence in context: [A252157](#) [A252150](#) [A023068](#) * [A067203](#) [A230544](#) [A280928](#)
	Adjacent sequences: [A062690](#) [A062691](#) [A062692](#) * [A062694](#) [A062695](#) [A062696](#)
KEYWORD	nonn
AUTHOR	[Noam D. Elkies](#), Jul 04 2001
STATUS	approved

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