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0,5,10,2,7,12,4,9,1,6,11,3,8   [Search]   *Hints*

(Greetings from The On-Line Encyclopedia of Integer Sequences!)

Search: **seq:0,5,10,2,7,12,4,9,1,6,11,3,8**

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Sort: relevance | references | number | modified | created   Format: long | short | data

A025641   Exponent of 3 (value of i) in n-th number of form 3^i*6^j.

0, 1, 0, 2, 1, 3, 0, 2, 4, 1, 3, 0, 5, 2, 4, 1, 6, 3, 0, 5, 2, 7, 4, 1, 6, 3, 8, 0, 5, 2, 7, 1, 6, 3, 8, 0, 5, 10, 2, 7, 4, 9, 1, 6, 11, 3, 8, **0, 5, 10, 2, 7, 12, 4, 9, 1, 6, 11, 8**, 13, 0, 5, 10, 2, 7, 12, 4, 9, 14, 1, 6, 11, 3, 8, 13, 0, 5, 10, 15, 2, 7, 12, 4, 9, 14, 1 11, 16, 3, 8, 13, 0, 5, 10 (list; graph; refs; listen; history; text; internal format)

OFFSET	1,4
COMMENTS	Also known as (exponent of 3 in n-th number of the form 3^i * 6^j) - (exponent in n-th number of the form 3^i * 6^j). - David A. Corneth, Jan 12 2021
LINKS	David A. Corneth, Table of n, a(n) for n = 1..10000
EXAMPLE	a(5) = 1 as the 5th number of the form 3^i * 6^j is 18 = 3^1 * 6^1 which has exponent of 3 equal to 1. - David A. Corneth, Jan 12 2021
MATHEMATICA	SortBy[Join @@ Table[{i, 3^i*6^j}, {i, 0, Log[3, #]}, {j, 0, Log[6, #/3^i]}], &[10^8]][[All, 1]] (* Michael De Vlieger, Jan 12 2021, after Amiram Eldar at A025614 *)
CROSSREFS	Differs from A025649 at a(114). A025657 is exponent of 6. Cf. A025614.
KEYWORD	nonn
AUTHOR	David W. Wilson
STATUS	approved

A025649   Exponent of 4 (value of i) in n-th number of form 4^i*10^j.

0, 1, 0, 2, 1, 3, 0, 2, 4, 1, 3, 0, 5, 2, 4, 1, 6, 3, 0, 5, 2, 7, 4, 1, 6, 3, 8, 0, 5, 2, 7, 1, 6, 3, 8, 0, 5, 10, 2, 7, 4, 9, 1, 6, 11, 3, 8, **0, 5, 10, 2, 7, 12, 4, 9, 1, 6, 11, 8**, 13, 0, 5, 10, 2, 7, 12, 4, 9, 14, 1, 6, 11, 3, 8, 13, 0, 5, 10, 15, 2, 7, 12, 4, 9, 14, 1 11, 16, 3, 8, 13, 0, 5, 10 (list; graph; refs; listen; history; text; internal format)

OFFSET	1,4
LINKS	Table of n, a(n) for n=1..98.
CROSSREFS	Differs from A025641 at a(114). A025686 is exponent of 10.
KEYWORD	nonn
AUTHOR	David W. Wilson
STATUS	approved

A215344   Value of x in the n-th number of the form x+y*(1+sqrt(5))/2.

0, 1, 0, 2, 1, 3, 0, 2, 4, 1, 3, 0, 5, 2, 4, 1, 6, 3, 0, 5, 2, 7, 4, 1, 6, 3, 8, 0, 5, 2, 7, 1, 6, 3, 8, 0, 5, 10, 2, 7, 4, 9, 1, 6, 11, 3, 8, **0, 5, 10, 2, 7, 12, 4, 9, 1, 6, 11, 8**, 0, 13, 5, 10, 2, 7, 12, 4, 9, 1, 14, 6, 11, 3, 8, 0, 13, 5, 10, 2, 15, 7, 12, 4, 9, 1, 14 11, 3, 16, 8, 0, 13, 5, 10, 2, 15, 7, 12, 4, 17, 9, 1, 14, 6, 11, 3, 16, 8, 0, 13, 5 (list; graph refs; listen; history; text; internal format)

OFFSET	1,4
COMMENTS	Let x>=0, y>=0 be integers, sort according to x+y*(1+sqrt(5))/2, this sequence gives the x-values. [Joerg Arndt, Aug 16 2012]
	The positive elements of this sequence are A084531. [Peter G. Anderson, Aug 28 2012]
LINKS	Peter G. Anderson, Table of n, a(n) for n = 1..1571
EXAMPLE	Let g = (1+sqrt(5))/2, sequences A215344 (x) and A215345 (y) start as:
	[x+y*g, x, y]
	[0.0000000, 0, 0]
	[1.0000000, 1, 0]
	[1.6180340, 0, 1]
	[2.0000000, 2, 0]
	[2.6180340, 1, 1]
	[3.0000000, 3, 0]
	[3.2360680, 0, 2]
	[3.6180340, 2, 1]
	[4.0000000, 4, 0]
	[4.2360680, 1, 2]
	[4.6180340, 3, 1]
	[4.8541020, 0, 3]
	[5.0000000, 5, 0]
	[5.2360680, 2, 2]
	[5.6180340, 4, 1]
	- Joerg Arndt, Aug 17 2012.
PROG	(PARI)
	default(realprecision, 99); /* using floats */
	g=(1+sqrt(5))/2; /* golden ratio */
	M = 100.0; /* search limit: x + y * g <= M */
	v=vector(ceil(M)^2);
	ct=0;
	{ for (x=0, M,
	for (y=0, (M-x)/g,
	ct += 1;
	v[ct] = [x+y*g, x, y];
	);
	); }
	v=vector(ct, n, v[n]);
	v=vecsort(v, 1); /* sort according to x + y * g */
	v215344=vector(#v, n, v[n][2])
	v215345=vector(#v, n, v[n][3])
	/* Joerg Arndt, Aug 17 2012 */
CROSSREFS	A215345 is the value of y.
KEYWORD	nonn
AUTHOR	Peter G. Anderson, Aug 08 2012
STATUS	approved

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