

# A255216

The total length (rounded down to integer) of the elements of a variant of a 3-element fractal after  $n$  iterations, starting with 5 elements, each of whose length is  $\frac{1}{3}$  (in some units).

$$L(0) = 3 \cdot \left(\frac{1}{3}\right) = 1, \quad L(n) = (3/\sqrt{5})^n, \quad a(n) = \text{floor}(L(n)).$$

$n$	0	1	2	3	4	5	6	7	8	9	...
$L(n)$	1	1.341641	1.8	2.414953	3.24	4.346916	5.832	7.824449	10.4976	14.08401	...
$a(n)$	1	1	1	2	3	4	5	7	10	14	...

