exponent of 2	exponent of 3	exponent of 5	number in set	size of current batch
0	0	0	1	
1	0	0	2	
0	1	0	3	5
2	0	0	4	
0	0	1	5	
3	1	1	120	1
6	0	2	1600	
5	0	4	20 000	4
4	0	8	6 250 000	
3	0	16	1 220 703 125 000	
2	2	32	838 190 317 153 930 664 062 500	
2	4	31	$\sim 10^{24}$	
⋮	⋮	⋮	⋮	32
2	2^{32}	1	$\sim 10^{2\,049\,220\,187}$	
1	2^{33}	2		
1	$2^{33}-1$	2^2		
⋮	⋮	⋮	⋮	2^{33}
1	1	$2^{2^{33}}$		
0	2	$2^{2^{33}}$		
0	4	$2^{2^{33}}-1$		
⋮	⋮	⋮	⋮	$2^{2^{33}}-1$
0	$2^{2^{2^{33}}-1}$	2		
2	$2^{2^{2^{33}}}$	0		
4	$2^{2^{2^{33}}}-1$	0		
⋮	⋮	⋮	⋮	$1+2^{2^{2^{33}}} \sim 2\uparrow\uparrow 6$
$\sim 2\uparrow\uparrow 7$	0	0	$\sim 2\uparrow\uparrow 8$	

A sequence by Jim Henle that shows that $a(5)$ is at least $2^{2^{2^{33}}}$. The $2\uparrow\uparrow m$ notation refers to 2^2^2^…^2 with m terms.