

Table 189: Running Sums (Σ)=p

Table 189: p=Σ																
p	Σ=p	2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	Mp = 2p-1=z	
2	1+1=2	.													3	
3	1+2=3	.													7	
5	1+4=5	.	.												31	
7	1+2+4=7	.	.												127	
13	1+4+8=13	.	.												8191	
17	1+16=17				.										131071	
19	1+2+16=19	.			.										524287	
31	1+2+4+8+16=31	.	.	.	.										2147483647	
61	1+4+8+16+32=61		.	.	.	.									2305843009213693951	
89	1+8+16+64=89			.	.		.								618970019642690137449562111	
107	1+2+8+32+64=107	.	.		.	.	.								162259276829213363391578010288127	
127	1+2+4+8+16+32+64=127	.	.	.	.	.	.								170141183460469231731687303715884105727	
521	1+8+512=521		.							.						
607	1+2+4+8+16+64+512=607	.	.	.	.		.			.						
1279	1+2+4+8+16+32+64+128+1024=1279	.	.	.	.	.	.	.			.					
2203	1+2+8+16+128+2048=2203	.		.	.			.				.				
2281	1+8+32+64+128+2048=2281			.		.	.	.				.				
3217	1+16+128+1024+2048=3217				.			.			.	.				
4253	1+4+8+16+128+4096=4253		.	.	.			.					.			
4423	1+2+4+64+256+4096=4423	.	.				.		.				.			
9689	1+8+16+64+128+256+1024+8192=9689			.	.		.	.	.		.			.		
9941	1+4+16+64+128+512+1024+8192=9941		.	.		.	.			.	.			.		
11213	1+4+8+64+128+256+512+2048+8192=11213		.	.			.	.	.	.		.		.		
19937	1+32+64+128+256+1024+2048+16384=19937					.	.	.	.		.	.				
21701	1+4+64+128+1024+4096+16384=21701		.				.	.			.		.			
23209	1+8+32+128+512+2048+4096+16384=23209			.		.		.		.		.	.			
44497	1+16+64+128+256+1024+2048+8192+32768=44497				.		.	.	.		.	.		.		
86243	1+2+32+64+128+4096+16384+65536=86243	.				.	.	.					.			
110503	1+2+4+32+128+256+512+1024+2048+8192+32768+65536=110503	.	.			.		.	.	.	.	.		.		
132049	1+16+64+128+256+512+131072=132049				.		.	.	.	.						
216091	1+2+8+16+1024+2048+16384+65536+131072=216091	.	.	.							.	.				
756839	1+2+4+32+64+1024+2048+32768+65536+131072+524288=756839	.	.			.	.				.	.				
859433	1+8+32+256+1024+2048+4096+65536+262144+524288=859433			.		.			.		.	.	.			
1257787	1+2+8+16+32+256+4096+8192+65536+131072+1048576=1257787	.	.	.	.				.				.	.		
1398269	1+4+8+16+32+64+128+256+1024+4096+16384+65536+262144+1048576=1398269		.	.	.	.	.	.	.		.		.			
2976221	1+4+8+16+64+128+256+2048+8192+16384+65536+262144+524288+2097152=2976221		.	.	.		.	.	.			.		.		
3021377	1+64+512+2048+4096+131072+262144+524288+2097152=3021377						.			.		.	.			
6972593																
13466917																
20996011																
24036583																
25964951																
30402457																
32582657																
37156667																
42643801																
43112609																
57885161																
74207281																
77232917																
82589933																
Table 189	Table 189: Running Sums (Σ)=p. The Σ of some combination of the BF1=p. The distribution of those BF1 numbers — up to 8192 — are shown. What if every natural number -- EVEN or ODD, and already found on the DMT -- can also be made by the <u>selective</u> Running Sum (Σ) of the Butterfly Fractal 1 (BF1)? If you want an ODD you start with "1" and add up <u>select</u> EVENS -- 2-4-8-16-... -- and, if you want to make an EVEN you simply start without the "1." ALL natural numbers can be made from selective Σs of the BF1. Copyright©2025 Reginald Brooks. Brooks Design. All rights reserved.															