Probability

Size	1	2	3	4	5	6	7	8	9	10	11	12	Sequence	Notes
2Sk-k>0 ∀k	1	1	2	3	6	10	20	35	70	126	252	462	A001405	n = size
Number of 0's														
0	1	1	1	1	1	1	1	1	1	1	1	1	A000012	n = size
1	0	0	1	2	3	4	5	6	7	8	9	10	A000027	n = size-2
2	0	0	0	0	2	5	9	14	20	27	35	44	A000096	n = size-4
3	0	0	0	0	0	0	5	14	28	48	75	110	A005586	n = size-6
4	0	0	0	0	0	0	0	0	14	42	90	165	A005587	n = size-8
5	0	0	0	0	0	0	0	0	0	0	42	132	A005557	n = size-10
0	1	1	1	1	1	1	1	1	1	1	1	1	binomial(n,0)	n = size
1	1	2	3	4	5	6	7	8	9	10	11	12	binomial(n,1)	n = size
2	0	1	3	6	10	15	21	28	36	45	55	66	binomial(n,2)	n = size
3	0	0	1	4	10	20	35	56	84	120	165	220	binomial(n,3)	n = size
4	0	0	0	1	5	15	35	70	126	210	330	495	binomial(n,4)	n = size
5	0	0	0	0	1	6	21	56	126	252	462	792	binomial(n,5)	n = size
6	0	0	0	0	0	1	7	28	84	210	462	924	binomial(n,6)	n = size
7	0	0	0	0	0	0	1	8	36	120	330	792	binomial(n,7)	n = size
8	0	0	0	0	0	0	0	1	9	45	165	495	binomial(n,8)	n = size
9	0	0	0	0	0	0	0	0	1	10	55	220	binomial(n,9)	n = size
10	0	0	0	0	0	0	0	0	0	1	11	66	binomial(n,10)	n = size
11	0	0	0	0	0	0	0	0	0	0	1	12	binomial(n,11)	n = size
12	0	0	0	0	0	0	0	0	0	0	0	1	binomial(n,12)	n = size