A319094

Triangle of Coefficients in Expansion of $\left(1 + x + 2x^2 + x^3 + x^4 + x^5 + x^6\right)^n$

Center-justified Triangle

Row n	Sum S_n	Coefficients
0	1	1
1	8	1 1 2 1 1 1 1
2	64	1 2 5 6 8 8 9 8 7 4 3 2 1
3	512	1 3 9 16 27 36 47 54 60 58 54 45 37 27 18 10 6 3 1
4	4096	1 4 14 32 65 108 166 228 296 352 396 412 409 380 336 276 215 156 108 68 39 20 10 4 1
5	32768	1 5 20 55 130 256 455 725 1075 1475 1907 2310 2655 2885 2990 2941 2760 2460 2095 1695 1306 950 655 425 260 146 75 35 15 5 1
6	262144	1 6 27 86 231 522 1052 1902 3171 4896 7098 9678 12509 15342 17952 20048 21438 21942 21546 20286 18342 15902 13227 10536 8041 5862 4077 2692 1686 996 552 282 132 56 21 6 1

REFERENCE:
Shara Lalo and Zagros Lalo, Polynomial Expansion Theorems and Number Triangles, Zana Publishing, 2018, ISBN: 978-1-9995914-0-3