# Second Layer Skew Diagonals in Triangle A303872
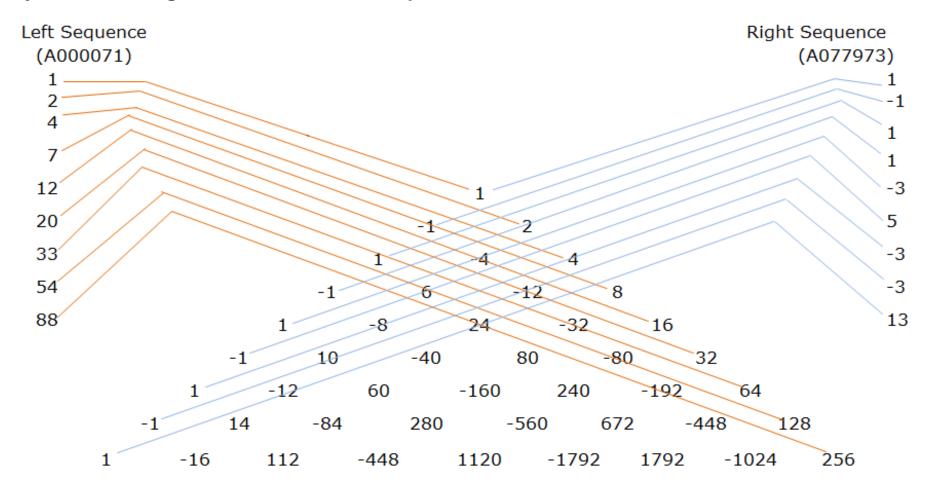
## Center-justified Triangle of Coefficients in Expansion of $(-1 + 2x)^n$

Left Sequence
(A000071)

Right Sequence
(A077973)

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 1 |
| 2 | | | | | | | | | | | | | | | | -1 |
| 4 | | | | | | | | | | | | | | | | 1 |
| 7 | | | | | | | | | | | | | | | | 1 |
| 12 | | | | | | 1 | | | | | | | | | | -3 |
| 20 | | | | | -1 | | 2 | | | | | | | | | 5 |
| 33 | | | | 1 | | -4 | | 4 | | | | | | | | -3 |
| 54 | | | -1 | | 6 | | -12 | | 8 | | | | | | | -3 |
| 88 | | 1 | | -8 | | 24 | | -32 | | 16 | | | | | | 13 |
| | -1 | | 10 | | -40 | | 80 | | -80 | | 32 | | | | | |
| | 1 | | -12 | | 60 | | -160 | | 240 | | -192 | | 64 | | | |
| | -1 | | 14 | | -84 | | 280 | | -560 | | 672 | | -448 | | 128 | |
| 1 | | -16 | | 112 | | -448 | | 1120 | | -1792 | | 1792 | | -1024 | | 256 |

The numbers in diagonals pointing top-left are the numbers in rows of the triangle in **A317504**.

The numbers in diagonals pointing top-right are the numbers in rows of the triangle in **A317505**.

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