

Prefix sum

$\{1, 1, 0, 0, 2, 0, 1, 0, 0, 0\}$

$\{0, 1, 2, 2, 2, 4, 4, 5, 5, 5, 5\}$

Distribute

$\{0, 1, 2, 2, 2, 4, 4, 5, 5, 5, 5\}$

$\{(1+x_0), (1+x_1), \dots, (1+x_n)\}$