

1. Grundy's Game. This two-player game starts with a pile of n counters. Each turn, a player must divide one of the remaining piles into two piles of *different* sizes. Play this game with your partner, noting that for even values of n , the first player wins by the Tweedledum and Tweedledee principle.
2. Calculate the Grundy values of Grundy's games $G(n)$, for initial pile sizes up to 40.

n	0	1	2	3	4	5	6	7	...	40
$G(G(n))$	0	0	0	1	0	2	1	0	...	