

The hyperbinary counter

- Each block color corresponds to a binary value 1, 2, 4, 8, and so on. You need to agree with your table which color has which binary value.
- For every number N , how many ways are there to make N using at most two blocks of each color?

N	Ways to make N according to the rules	B_N = number of ways to make N
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		

- What patterns do you notice in the sequence B_N ?