

Catalan Numbers

$$C_1 = 1$$

$$C_2 = 2$$

$$C_3 = 5$$

$$C_4 = 14$$

$$C_5 = 42$$

$$C_6 = 132$$

$$C_7 = 429$$

$$C_8 = 1430$$

$$C_9 = 4862$$

$$C_{10} = 16796$$

$$C_{11} = 58786$$

$$C_{12} = 208012$$

$$C_{13} = 742900$$

$$C_{14} = 2674440$$

$$C_{15} = 9694845$$

$$C_{16} = 35357670$$

$$C_{17} = 129644790$$

$$C_{18} = 477638700$$

$$C_{19} = 1767263190$$

$$C_{20} = 6564120420$$