$$C_1 = 1$$
$$C_2 = 2$$
$$C_3 = 5$$
$$C_4 = 14$$
$$C_5 = 42$$
$$C_6 = 132$$
$$C_7 = 429$$
$$C_8 = 1430$$
$$C_9 = 4862$$
$$C_{10} = 16796$$
$$C_{11} = 58786$$
$$C_{12} = 208012$$
$$C_{13} = 742900$$
$$C_{14} = 2674440$$
$$C_{15} = 9694845$$
$$C_{16} = 35357670$$
$$C_{17} = 129644790$$
$$C_{18} = 477638700$$
$$C_{19} = 1767263190$$
$$C_{20} = 6564120420$$