In a donut store, there are

20 kinds of donuts. We'll buy 12 donuts. In how n = 20 $x_1 + x_2 + \dots + x_{20} = 2$, r = 12 $0 \le x_1$

 $\binom{n+r-1}{r} = \binom{31}{12} = \binom{31}{19}$

Dy Dr Dr ... Counts same Configurations (an infigurations) $\frac{2}{3}$ configurations $\frac{11}{3}$ many times...









