$$w_{\mathrm{BE}}(i) = \frac{(n_i + g_i - 1)!}{n_i!(g_i - 1)!}$$

$$W_{\mathrm{BE}}\{n_i\} = \prod_i \frac{(n_i + g_i - 1)!}{n_i!(g_i - 1)!}$$

$$w_{\mathrm{FD}}(i) = \frac{g_i!}{n_i!(g_i - n_i)!}$$

$$W_{\mathrm{FD}}\{n_i\} = \prod_i \frac{g_i!}{n_i!(g_i - n_i)!}$$

$$\frac{N!}{n_1! n_2! \cdots}$$

$$\frac{1}{n_1! n_2! \cdots} = \prod_i \frac{1}{n_i!}$$

$$W_{\mathrm{MB}}\{n_i\} = \prod_i \frac{g_i^{n_i}}{n_i!}$$