

Combinatorial methods in discrete math.

Let  $\sigma : [M] \rightarrow [N]$ . Define the *primary configuration* as  $[\sigma] \equiv [a[1]^{\alpha[1]} \dots a[n]^{\alpha[n]}]$ , and  $\alpha[1] + \alpha[2] + \dots + \alpha[n] = m$ , where  $\alpha[j] \equiv |\{m \in M : \sigma(m) = j\}|$ .