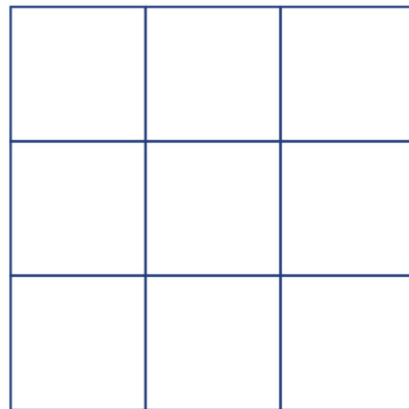


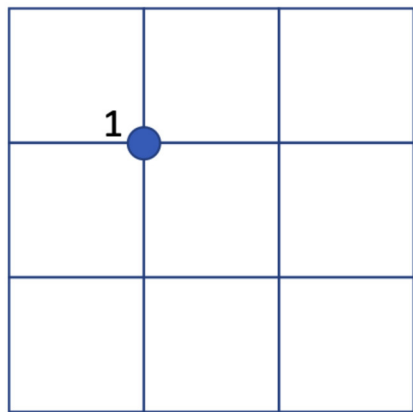
N sites

n of atoms A

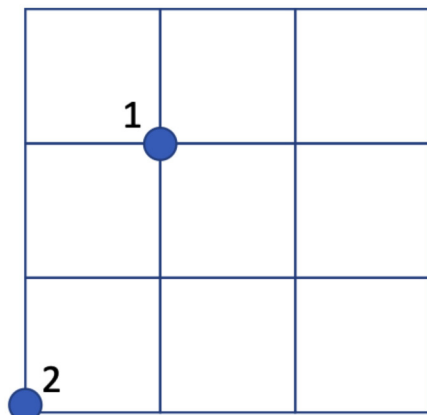
$N - n$ of atoms B



N sites



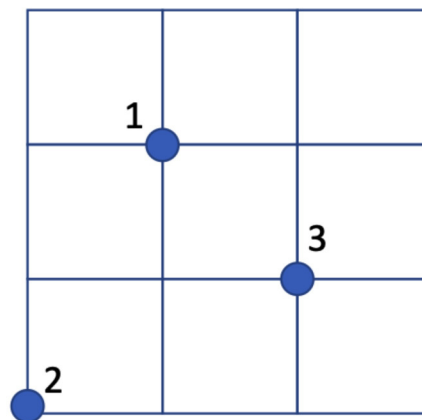
N ways



$$\frac{N(N-1)}{2}$$

1,2
2,1

$$\frac{N(N-1)(N-2)}{3!}$$



1,2,3
1,3,2
2,1,3
2,3,1
3,2,1
3,1,2