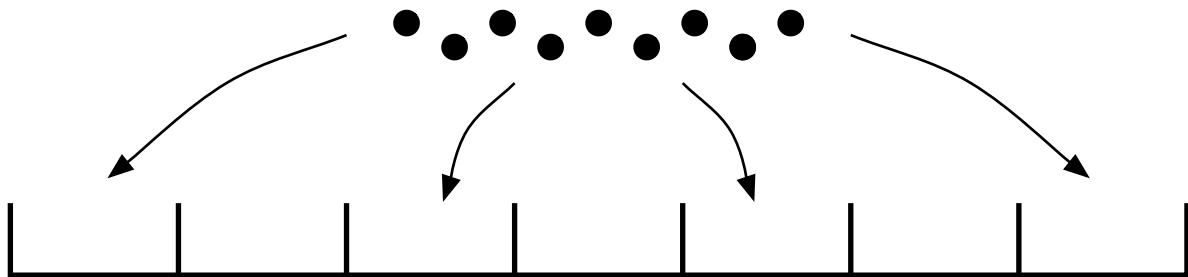


m balls



N bins

$$\begin{aligned}
 & \begin{array}{c} \bullet \quad \bullet \\ \swarrow \quad \searrow \\ \boxed{} \end{array} = \frac{1}{2!} \frac{m^2}{N} \qquad \begin{array}{c} \bullet \\ \downarrow \\ \bullet \quad \bullet \\ \swarrow \quad \searrow \\ \boxed{} \end{array} = \frac{1}{3!} \frac{m^3}{N^2}
 \end{aligned}$$