

$$P_n^m = n(n-1)(n-2) \dots (n-m+1) = \frac{n!}{(n-m)!}$$

剩下的有几种可能，就乘以几

$$\therefore C_n^m = \frac{P_n^m}{m!} = \frac{n!}{m!(n-m)!} = \frac{n!}{(n-m)!m!}$$

$$\therefore C_n^m = C_n^{n-m}$$