

Counting

Permute = $nPr = n! / (n - r)!$

Combinations = $nCr = n! / (r!(n - r)!)!$

Circular Permutation = $n!/n$ (eg, 6 ppl around tables = $5!$)

Inclusion-Exclusion Principle: if there are cases when both things are done together, we need to subtract the number of ways to do both from the sum.

Complexity

Algorithms:

- Precise: they must be written in terms understandable by anyone
- Effective: a step must help the algorithm progress to the final goal
- Practical: a sequence of precise and effective steps may not be useful in practice



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