

### 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.

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### 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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Page 1 of 1.

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