Quick Review:

- Counting is very much problem-based, so here are some things to keep in mind:

  ↳ <u>Always</u> write out small cases.

  ↳ Don't be afraid to bash!

  ↳ Often "and" $\Rightarrow$ multiply, "or" $\Rightarrow$ add.

  ↳ Common sense comes first.

  ↳ Few rules, ~~toβ~~ lots of guidelines.

  ↳ Do problems twice if possible.

  ↳ Keep track of ordering / when it matters.

  ↳ Keep track of distinguishability.

  ↳ Be organized (helps in general, but esp. here)

- Anatomy:

  (1) Write out small cases.

  (2) Identify <u>structure</u> that you can exploit

  (3) Profit

  ↳ This structure is usually how you can construct examples, but not always

  ↳ Sometimes it manifests as a bijection