

# Motivation

- Make you smarter
  - How many combinations is, if putting 4 different balls into 2 different baskets?
- Solve interesting problems
  - The Berge Mystery: Six men had been to the library on the day that the rare book was stolen. If two were in the library at the same time, then at least one of them saw the other. Detective Hercule Poirot questioned the suspects and gathered the following testimony:
    - A saw B and E.      F saw C and E.
    - B saw A and F.      E saw B and C. *Now, who is the thief?*
    - C saw D and E.      D saw A and F.
- GRE SUB test