Toy Example: Spy Agency

- What are the vertices? (Answer: Cellphones)
- What are the edges? (Answer: pairs of cellphones where their owners are known to call each other.)
- What are you looking for?
  - Answer: the smallest number of cellphones so that all phone calls involve at least one cellphone in the set.
  - Better answer: the smallest set $V_0 \subseteq V$ of vertices so that every edge in E has at least one endpoint in V_0.

Do you recognize this problem?