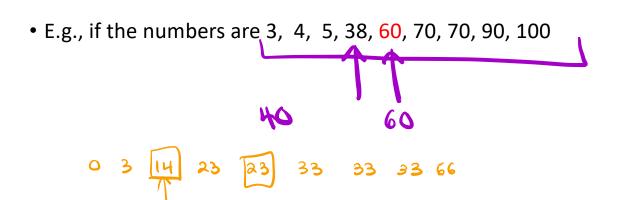
Game Theory Basics

- Game theory is designed to model
 - How rational (payoff-maximizing) "agents" will behave
 - When individual outcomes are determined by collective behavior.
 - Rules of a game specify agent payoffs as a function of actions taken by different agents.

Let's play the median game

- strategy: {0,.., 100}
- In a **private** message to Aditya Saraf, write down
 - An integer between 0 and 100 (inclusive).
- Later in the lecture, the person (or people) whose selected number is closest to 2/3 of the median of all the numbers (rounded down) wins the game!



Prisoners Dilemna Prisac II stay silent confess/betray stay silent (-1, -1)[-10, 0)→confess/betray (0, -10)in enten case, best response to bestray