







Assume IPV for now

- Both auctions with Independent Private Values and those with "Common Values" can occur, so we will consider both cases
- To start with, we assume IPV.

Second Price Auctions Have a Dominant Strategy.

- Suppose you have a value of, say, \$100 for a case of wine.
- When would you be happy winning? Obviously, when the price is anything less than \$100.
- When the price is >\$100, you would rather not win.
- The trick is to focus on the highest bid of your rivals, call it B.
 - When B<\$100, you want to win (and pay B)
 - When B>\$100, you would rather "lose"
- A bid of \$100 guarantees that you win when B<100 and lose when B >100.
- This is true no matter what reasoning led your rival to bid B

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Bid Your Value in Second Price Auctions

- Observe that your own bid cannot affect the price you pay.
- It only affects whether or not you win.
- That is why bidding your value is best. It makes sure you win exactly when you want to – that is, when the price you will pay is below your value.
- Notice that when bidders play their dominant strategies in a second price auction, the winning price should be the value of the second highest bidder.

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