







Example: The Dishonest Casino



A casino has two dice: • Fair die

P(1) = P(2) = P(3) = P(5) = P(6) = 1/6• Loaded die

P(1) = P(2) = P(3) = P(5) = 1/10

P(6) = 1/2 Casino player switches back-&-forth between fair and loaded die once every 20 turns

Game:

- 1. You bet \$1
- 2. You roll (always with a fair die)
- 3. Casino player rolls (maybe with fair die, maybe with loaded die)
- 4. Highest number wins \$2



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