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Algorithms, Probability - Friday, February 5, 2021

What is the expected value for whether or not the sum of two rolled dice is equal to exactly 5 or 6? This is a pretty contrived example to get some experience with expected values, indicator variables, and the linearity of expectations.

1. What is the space of all possible outcomes (Ω)?
2. What is the probability of each outcome?
3. What is the expected value?