



## M4-03: Writing Simulations in Python

Part of the "Simulation and Distributions" Learning Badge

Video Walkthrough: <https://discovery.cs.illinois.edu/m4-03/>

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### Writing Python Simulations

**Puzzle #1:** Using Python, collect **13,000** observations of rolling a single six-sided die.

<b>Simulation:</b>	
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**Analysis:** What is our estimated probability of rolling a number **less than 4**?

**Puzzle #2:** Using Python, collect **10,000** observations of flipping two fair coins.

<b>Simulation:</b>	
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**Analysis:** What is our estimation of the probability of flipping two heads?