

MATH 242: Wednesday, April 8

GOALS:

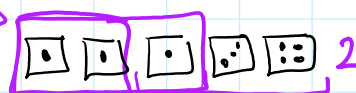
- Gain experience coding in Python.
- Compare Mathematica and Python syntax.
- Implement a simplified Yahtzee game in Python, which we will use next time for mathematical investigation.

SIMPLIFIED YAHTZEE GAME

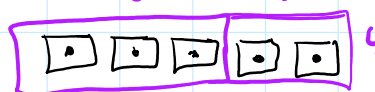
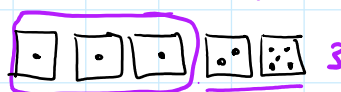
1. Roll 5 dice



2. Keep the value that occurs the most, and re-roll the other values.



3. Repeat step 2 until all dice have the same value.



QUESTION: How many rolls does it take on average until we get a Yahtzee?

List comprehension for 1000 Yahtzee simulations:

```
numRollList = [ rollYahtzee() for i in range(1000) ]
```

expression *variable* *list/range*