Cole-escent theory

Inspired by GENOME 551 with Cole Trapnell

- 20 students in a class, numbered 1, 2, ..., 20

- Each day of class, professor rolls 20-sided die to choose a student to call on

Question: How many classes do I expect it to take me to get called on?

Each class I get called w/ Prob. $\frac{1}{20}$

$$\implies \mathbb{E}[T] = \frac{1}{\frac{1}{20}} = 20 \text{ classes}$$

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Question: How many classes do you expect until all 20 students have been called on?