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Confidence Interval, Modes of](#)

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> 3. Consistency

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3. Consistency

Quantifying Consistency (optional)

0 points possible (ungraded)

Let $X_1, \dots, X_n \stackrel{i.i.d.}{\sim} \text{Ber}(p)$ and let $\bar{X}_n = \frac{1}{n} \sum_{i=1}^n X_i$ be an estimator p .

What is the smallest exponent c such that $n^c (\bar{X}_n - p)$ does **not** converge to 0 almost surely as $n \rightarrow \infty$?

$c =$ ✓

[STANDARD NOTATION](#)

You have used 1 of 2 attempts

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✓ Correct

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