3. Consistency

Quantifying Consistency (optional)

0 points possible (ungraded)

Let $X_1, \ldots, X_n \overset{i.i.d.}{\sim} \mathrm{Ber(p)}$ and let $\overline{X}_n = \frac{1}{n}\sum_{i=1}^{n} X_i$ be an estimator p.

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

$c =$ 1/2 ✔

STANDARD NOTATION

You have used 1 of 2 attempts

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✔ Correct

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