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CC 2.4.2: Examples Using Randomness

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Comprehension Check due Jul 14, 2021 05:59 +06

Examples Using Randomness: Question 1

1/1 point (graded)

What will `random.choice(list((1,2,3,4)))` do?

- ☐ Sample the tuple `(1,2,3,4)`.
- ☐ Sample the list `[1,2,3,4]`.
- ☐ Sample from the tuple `(1,2,3,4)`.
- ☒ Sample from the list `[1,2,3,4]`.
- ☐ This code contains an error.



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Examples Using Randomness: Question 2

0/1 point (graded)

What is the law of large numbers with respect to histograms?

- ☐ We expect the histogram of a sample to better reflect the distribution as the sample size increases. ✓
- ☒ We expect the histogram of a sample to become more smooth as the sample size increases.
- ☐ We expect the histogram of a sample to become more flat as the sample size increases.
- ☐ All numbers in the histogram are very large, by law.



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ⓘ Answers are displayed within the problem

Examples Using Randomness: Question 3

1/1 point (graded)

What is the Central Limit Theorem?

- ☐ The distribution of many random variables is approximately normal.

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☐ The distribution of many numbers is approximately normal.

☒ The distribution of the sum of many random variables is approximately normal.

☐ The distribution of the sum of many numbers is approximately normal.



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