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CC 2.4.2: Examples Using Randomness

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

1/1 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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Examples Using Randomness: Question 3

1/1 point (graded)

What is the Central Limit Theorem?

- ( ) The distribution of many random variables is approximately normal.
- ( ) 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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