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Regression Discontinuity Design - Quiz

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Question 1

1/1 point (graded)

A regression discontinuity approach is appropriate in cases where:

- a. One uses a locally linear regression
- b. The hypothesized functional form is non-linear
- c. The probability of a particular outcome being realized shifts discontinuously with a running variable ✔
- d. An outcome variable shifts discontinuously

Explanation

This discontinuous shift in treatment across some running variable creates an opportunity to test the effect of the treatment on a given outcome variable.

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 2

1/1 point (graded)

What assumption underlies regression discontinuity designs?

- a. There is no other reason for a discontinuous jump in the outcome variable at the threshold other than that the treatment has changed. ✔
- b. The running variable has no effect on the outcome variable before or after the threshold.
- c. There are no variables that are correlated with both the running variable and the outcome variable.
- d. The running variable is not correlated with your outcome variable.

Explanation

The running variable or other variables may have an effect on the outcome variable as long as the effect does not change discontinuously at the threshold. However, if there is a reason for the outcome variable to discontinuously jump at the threshold besides the treatment change, then this jump cannot

be distinguished from the effect of the treatment change. In other words, all other variables that might be correlated with treatment, need to be the same on both sides of the jump.

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Discussion

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