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Dummy Outcome Refuter

The dummy outcome refuter tests: What happens to the estimated causal effect when we replace the true outcome variable with an independent random variable? (Hint: The effect should go to zero) In addition, an extension of the test can also check for any simulated outcome where the causal effect need not be zero: What happens to the estimated causal effect when we replace the outcome with a simulated outcome based on a known data-generating process closest to the given dataset? (Hint: It should match the effect parameter from the data-generating process)

Testing for zero causal effect

Testing for non-zero causal effect

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For a complete example on using the dummy outcome refuter, you can check out the notebook, \underline{A} Simple Example on Creating a Custom Refutation Using User-Defined Outcome Functions.

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