



Bookmarks

- ▶ [Module 1: The Basics of R and Introduction to the Course](#)
- ▶ [Entrance Survey](#)
- ▶ [Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions](#)
- ▼ [Module 3: Gathering and Collecting Data, Ethics, and Kernel Density Estimates](#)

[Gathering and Collecting Data](#)[Finger Exercises due Oct 17, 2016 05:00 IST](#)

Module 3: Gathering and Collecting Data, Ethics, and Kernel Density Estimates > Summarizing and Describing Data > Cumulative Histograms - Quiz

Cumulative Histograms - Quiz

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Question 1

1 point possible (graded)

A cumulative histogram is to the _____ what the _____ is to the _____.

- ☐ a. CDF, probability density function, histogram
- ☐ b. probability density function, histogram, CDF
- ☐ c. histogram, probability density function, CDF
- ☒ d. CDF, histogram, probability density function

Explanation

A histogram contains information about the frequency of observations within each interval. Dividing the frequency by the total number of observations gives us the density. On the other hand, a cumulative histogram conveys information on the “cumulative” frequency / density and

Summarizing and Describing Data

Finger Exercises due Oct 17, 2016 05:00 IST

**Module 3: Homework**

Homework due Oct 10, 2016 05:00 IST



- ▶ Module 4: Joint, Marginal, and Conditional Distributions & Functions of Random Variable
- ▶ Module 5: Moments of a Random Variable, Applications to Auctions, & Intro to Regression
- ▶ Module 6: Special Distributions, the Sample Mean, the Central Limit Theorem, and Estimation

hence provides an idea of what the CDF would look like. You can think of it as a running count as you move across bins, whereas a normal histogram resets the count for each bin.

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You have used 0 of 2 attempts

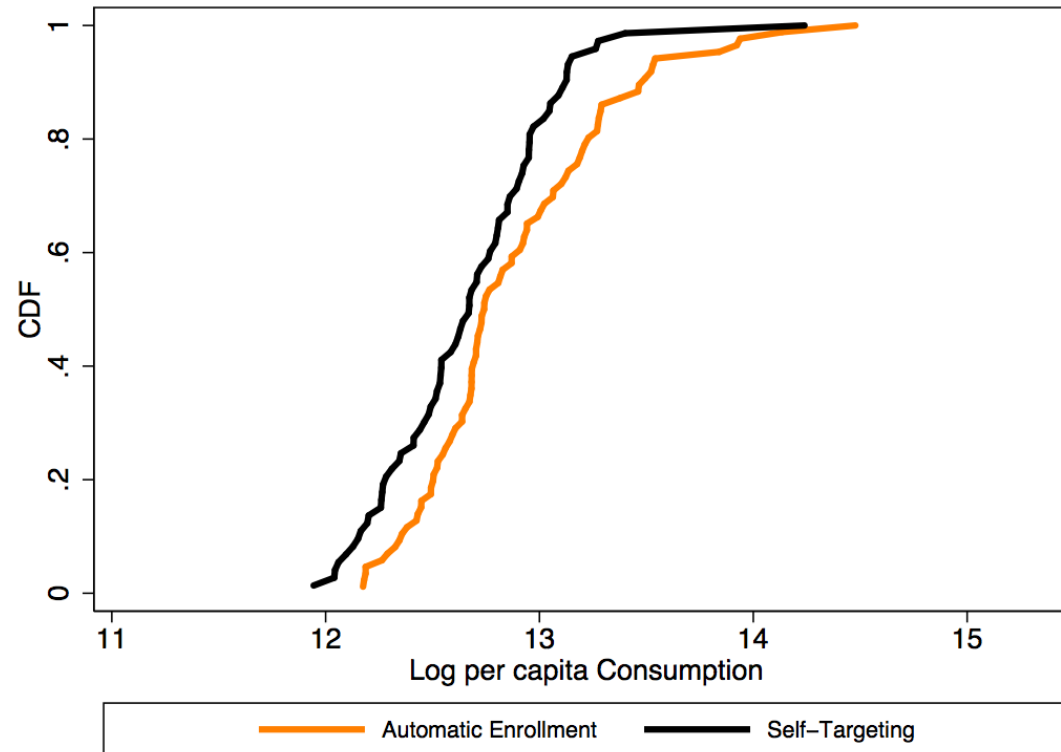
Question 2

1 point possible (graded)

True or False: The figure below plots the CDF of log per capita consumption for different subsidy scheme targeting methods. The CDF of consumption under automatic enrollment first-order stochastically dominates that under selection.

- ▶ Module 7: Assessing and Deriving Estimators - Confidence Intervals, and Hypothesis Testing
- ▶ Module 8: Causality, Analyzing Randomized Experiments, & Nonparametric Regression
- ▶ Module 9: Single and Multivariate Linear Models
- ▶ Module 10: Practical Issues in Running Regressions, and Omitted Variable Bias
- ▶ Module 11: Intro to Machine Learning and Data Visualization
- ▶ Module 12: Endogeneity.

FIGURE 7. Experimental Comparison of Self Targeting and Automatic Enrollment Treatments



(A) CDF of log per capita consumption of beneficiaries

☒ True

Instrumental Variables, and Experimental Design

- ▶ Exit Survey
- ▶ Final Exam

☐ False

Explanation

True. As Professor Duflo explained in class, since The figure shows that the “Automatic Enrollment” curve is to the right of the the “Selection” curve. From that, we can see that for any given consumption level, there are more people who consume less than than amount under the “Selection” scheme. So by definition, the automatic enrollment curve first order stochastically dominates the selection curve.

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Discussion

Topic: Module 3 / Cumulative Histograms - Quiz

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