Problem Set #9

ECON 833, Prof. Jason DeBacker
Due Thursday, December 4, 1:15 p.m.

This problem set is designed to familiarize you with a detailed overlapping generations model that can be used for academic research or policy analysis. You'll familiarize yourself by reading the traning manual that my colleague, Rick Evans, and I put together for the United Nations: United Nations OG-Core Overlapping Generations Model Training.

In particular, I want you to focus on the 2nd half of the training manual on the OG-Core model itself (Chapters 13-17). The first half of the manual focuses on the software (Python and Jupyter Notebooks) and I assume you are already familiar with those tools.

Deliverable

Please complete all exercises in Chapters 13-17 (there are 19 of these). You will turn in a Jupyter Notebook (where you have written answers and the code to replicate them[1]). You will put your notebook in the path /CompEcon_Fall2025/ProblemSets/ProblemSet9 on your ProblemSets branch of your fork of the class repository.

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[1]When you run the full model, e.g., in Exercise 14.1, do that from a terminal and not a Notebook. The length of time it takes the model to solve might mean the your Jupyter kernel will crash before a simulation finishes.