

On the Final Exam

Computational Macroeconomics

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Revisiting the course objectives (Lecture 1)

1. *Understanding*: Introduce computational methods, techniques, and procedures for solving and analyzing macroeconomic models
2. *Practical skills*: Develop practical skills in computationally solving macroeconomic models through hands-on exercises

- We have aimed to achieve Point 2 through daily sessions and coding assignments
- The final exam will therefore be tailored to assess your understanding of *the computational methods, techniques, and procedures for solving and analyzing macroeconomic models*

General instruction

- Written, closed-book exam (90 minutes)
- You will *not* be asked to write code
- You will be asked to explain certain algorithms or how to solve specific problems (details on the next slide)
- Partial credit will be given
- Please ensure your handwriting is neat and legible

Two types of questions

1. *Explain this algorithms or How to solve this problem ($\simeq 80\%$)*

- The economic environment (preference, technology, etc.) and optimization problems will be provided
- You will then be asked to explain the general idea of:
 - Solution methods for the optimization problem (e.g., grid search, EGM), including which method to choose and why
 - How to solve the model (e.g., GE, transition) and how to implement specific procedures (e.g., calibration, counterfactuals)

2. *What is wrong with this code or Why this code is more efficient than another ($\simeq 20\%$)*

- Simple and short code(s) will be provided
- You will then be asked to explain e.g., what is wrong with this code or which is faster/more efficient and why