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*Partner assignments*

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*Problems*

- **Romer's Problem 3.3.**
  - **Additional task:** For each part, sketch the time paths of  $g_A$ ,  $g_K$ , and  $\ln Y$  from the time of the change.
- **Romer's Problem 3.4.**
  - **Add new part (d):** Is this a “convergent” model or is there endogenous growth in this model? How is your answer to this question connected with the answers to (b) and (c)?
- **Romer's Problem 3.5.**
  - **Addition to part (c):** Sketch the time path of  $g_K$ ,  $g_A$ ,  $g_Y$ , and  $\ln Y$  in response to an increase in the saving rate.
  - **Omit the last part of (d):** I don't find a compelling intuition here, so you don't need to either.
- **Romer's Problem 3.13.**
  - **Additional part (d):** If the world consists of a group of “Northern” countries and a group of “Southern” countries, describe the distribution of per-capita incomes across countries in the steady state.
- **Romer's Problem 3.19.**
  - **Additional part (d):** What is the intuitive interpretation of  $B$ ? Given your results, what does the model predict about the effect of productivity on corruption? Does this seem consistent with the international evidence?