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Exercise 4.3: Policy Iteration

In this exercise, you will implement the algorithm for Policy Iteration.

Note that there is a subtle difference between the algorithm for Policy Evaluation, which assumes the policy is stochastic, and the Policy Evaluation step for the Policy Iteration algorithm, which assumes the policy is deterministic. This means that you cannot directly call your code from previous exercises, but you can reuse large pieces of it for the Policy Evaluation step.

Open the “Ex4.2 Policy Iteration.ipynb” notebook.

Examine the notebook and implement the algorithm in the appropriate location.

Make sure you don’t change the function signature for the primary function you are implementing, and the call to the tester code that verifies its correctness.

When you finish your implementation of the function, execute the code cell and verify that the code passes. If it does, save the printed “passcode” value for when you later submit your results on the course webpage below. If it doesn’t pass, correct your code and try again.

Lab Question

1/1 point (graded)

What is the “pass-code” you received upon successfully implementing the policy evaluation with in-place approach?



9970 — 010

Submit

You have used 2 of 5 attempts

✓ Correct (1/1 point)

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