CS747 Assignment 2

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Task 1

- 1. Used PuLP for solving linear equations in Howard Policy Iteration
- 2. Chose the improvable action with highest action value in HPI

Task 2

- 1. 4 actions [N, E, W, S] encoded as [0,1,2,3] respectively
- 2. Each free grid square considered to be a potential state of the agent
- 3. Transition probability between any adjacent free grid squares is 1
- 4. We want to minimize total moves, thus reward of -1 for all valid transitions
- 5. Gamma of 1 as all rewards are equally important and episodic task as it is guaranteed to end.