Cost 161: Assignment 10: Problem
$$\frac{1}{2}$$

We consider the conditional expectation $\frac{1}{2}$ [($\frac{1}{2}$, $\frac{1}{2}$) with $\frac{1}{2}$ $\frac{1}{2}$

By definition of the indifference $\frac{1}{2}$ $\frac{1}{2}$

This gives us: $\frac{1}{2}$ $\frac{1}{2}$

Question 2, Assignment 10, CME 241 - Pablo Veyrat, pveyrat@stanford.edu

My code for this question can be found in the assignment10_code.py file.

We printed the final reward, the final inventory as well as the final bid and ask prices for the Optimal and Naive policies across the different traces we generated.

Empirically, we did not manage to get an outstanding evidence that the Optimal Policy does indeed perform better than the naive policy. In particular, the final reward was not substantially higher on average.

The graph of the probability distribution of time steps to finish the game is can be found here: