Exercise 1

Name: _____

Draw an inventory buildup diagram for the fish processing example (from the lecture) when freezer capacity is 2400 tons, demand pattern is the same, but processing capacity is instead 3300 tons/month:

Exercise 2

Compute the long-term average of customer waiting time for the example "A Queue with Bursty Arrivals" (from the lecture), when the service time of each customer is instead (exactly) 50 seconds:

Hint: recall from DMD/Stat that $\sigma[X] = \text{sqrt}(E[X^2]-E[X]^2)$