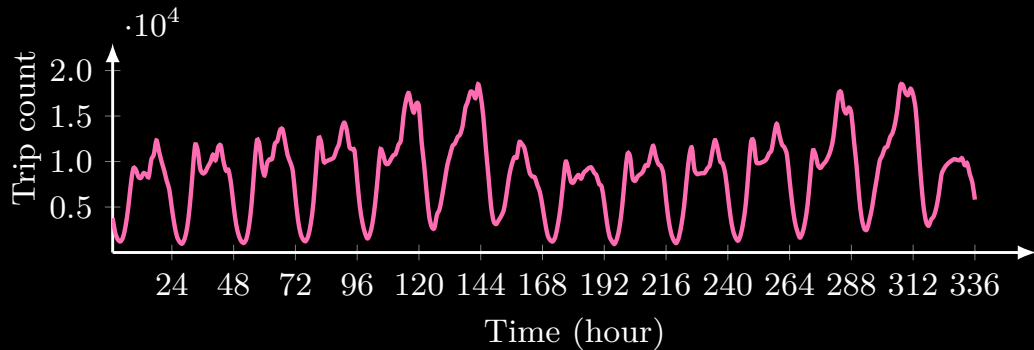
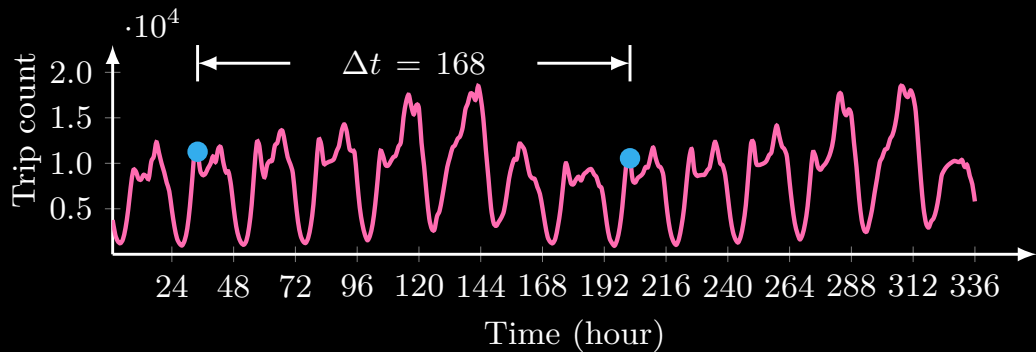


# Essential Ideas of Sparse Autoregression

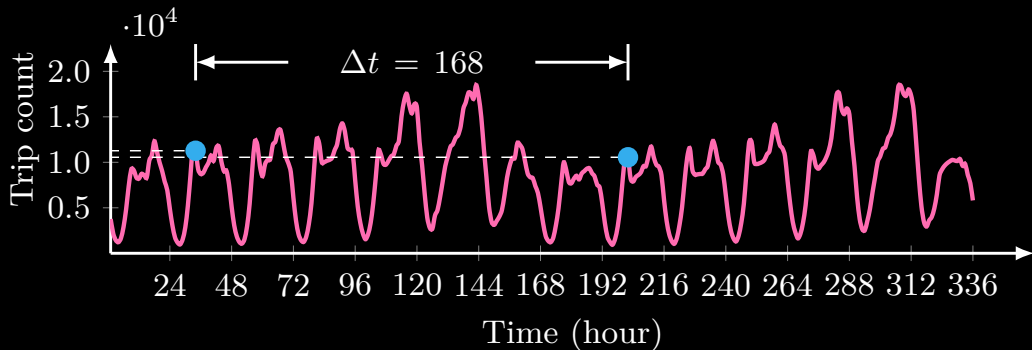
Annotating Ridesharing Trip Time Series

## Chicago ridesharing trip time series

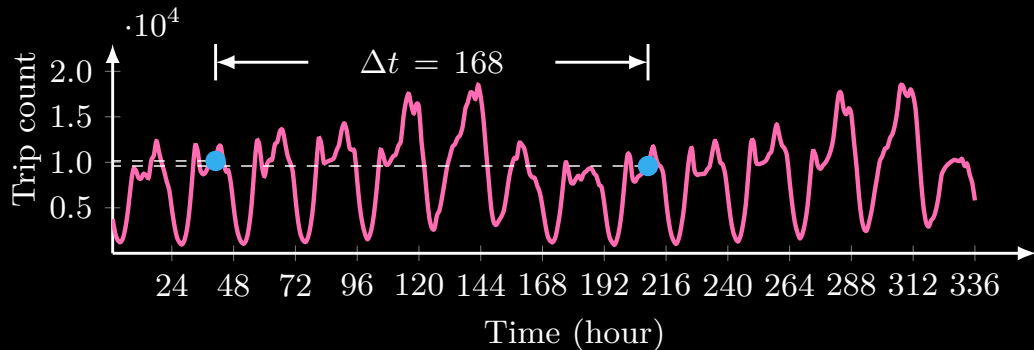




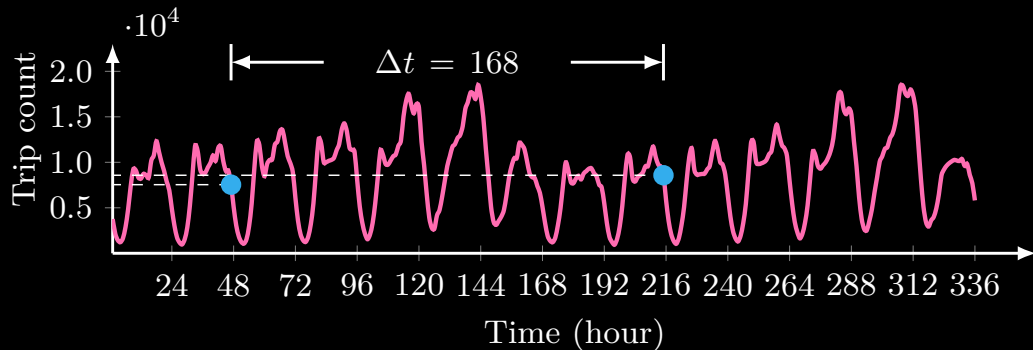
Weekly periodicity at  $t_0 = 34$



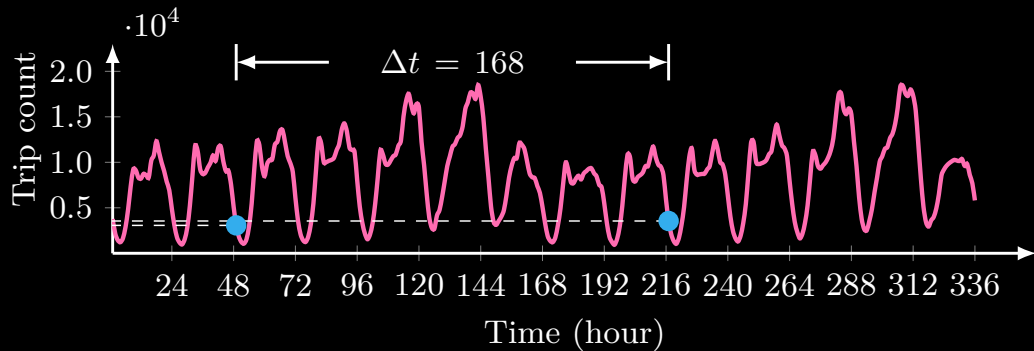
Weekly periodicity at  $t_0 = 41$



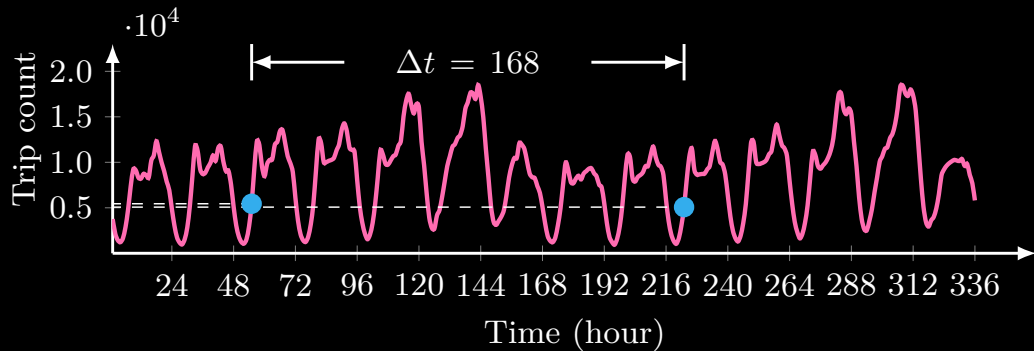
Weekly periodicity at  $t_0 = 47$



Weekly periodicity at  $t_0 = 49$



Weekly periodicity at  $t_0 = 55$





$$\min_{w_{\Delta t}} \sum_t (x_t - w_{\Delta t} x_{t-\Delta t})^2$$

