Contents of dataSet1.mat and dataSet2.mat

N=2400 data epochs.

time 1xN vector of seconds into GPS week 1711.
nSat 1xN vector of number of satellites in view for each epoch
prData 14xN pseudorange observations in meters for each epoch.
for each i 1 to N only prData(1:nSat(i),i) contains valid data.
svID 14xN satellite id number in view for each epoch
for each i 1 to N only svID(1:nSat(i),i) contains valid data.
satsXYZ 14x3xN ECEF xyz location of satellies in meters.
for each i 1 to N only satsXYZ(1:nSat(i),1:3,i) contains valid data.
nomXYZ 1x3 nominal XYZ corresponding to first epoch ECEF and in meters.
clockBiasNom 1x1 nominal clock bias corresponding to first epoch in seconds;

truthClockBias 1x4 GPS receiver clock bias. IN METERS.
truthXYZ 3xN True user ECEF position time history in meters.
sigma_URE 1x1 assumed user range error standard deviation in meters

Contents of mysteryCA.mat

mysteryCA 1x1023 C/A code PRN sequence that should be identified.