Apply a σ-clip of 4 to the dataset to remove spurious points

Cut the 4 years of data down to the reduced dataset length with the fewest total length of gaps in the data

Adjust the bandpass by multiplying the flux by 0.85

Add instrumental noise from TESS by multiplying the predicted noise level by multiplying this by a random number from the standard normal distribution before adding to the signal

Use the Lomb-Scargle periodogram to convert the signal from the time to the frequency domain