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Lab 3

Problem 1:

The purpose of problem 1 is to find the 3 keys/digits corresponding to our RUID. I saw that the blanking interval does not affect the result of decoding a signal. This is because where there is blanking, the values are zero so the frequency does not change. I had to convert between the frequencies from Hz to radians per sample in order to get the correct results for this problem.

Problem 1.1:

y = dtmfsig(179008726);

x = linspace(0, 0.9, 7200);

figure;

plot(x, y);

hold on;

xlim([0, 0.9]);

ylim([-3, 3]);

title("DTMT time signal");

hold off;