


 = Steps I have already successfully coded

 = Step I think is involved somewhere in the process, but I am not sure how to perform it properly

Shift the signal to baseband by mixing

Apply FIR filter with 21 taps using the Sinc function

Perform a filter for FM de-emphasis

Calculate the change in the phase angle by:
Product = $\text{data}[i] \cdot \text{conjugate}(\text{data}[i-1])$
 $(\text{Sample rate} \cdot \arctan(\text{Imaginary}(\text{product}) / \text{Real}(\text{product}))) / (2 \cdot \pi \cdot 75e3)$

Decimate by 10

Decimate by 48 and interpolate by 50

Normalize the data by dividing each point by the absolute value of the maximum value:
To make sure amplitudes are between 1 and -1 for the audio sink

Play file back through audio sink