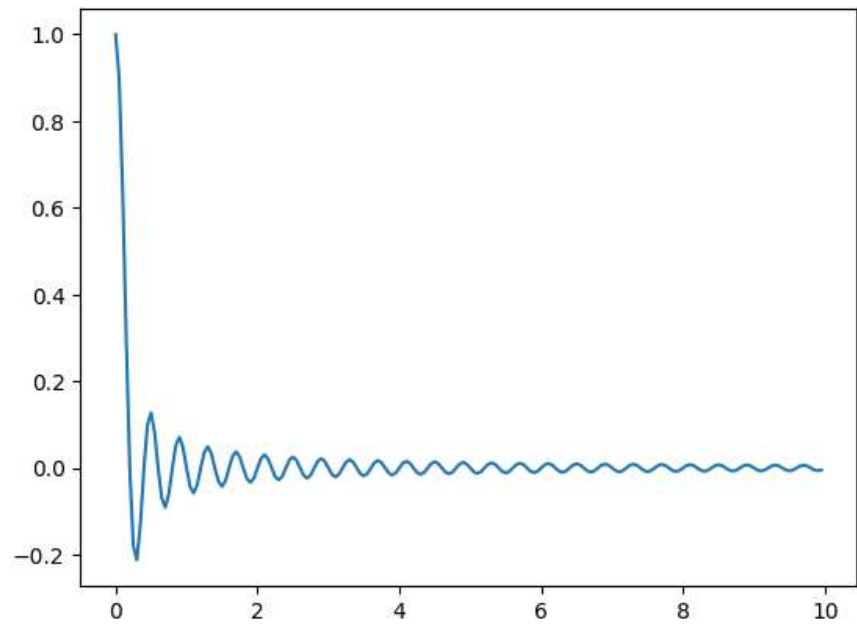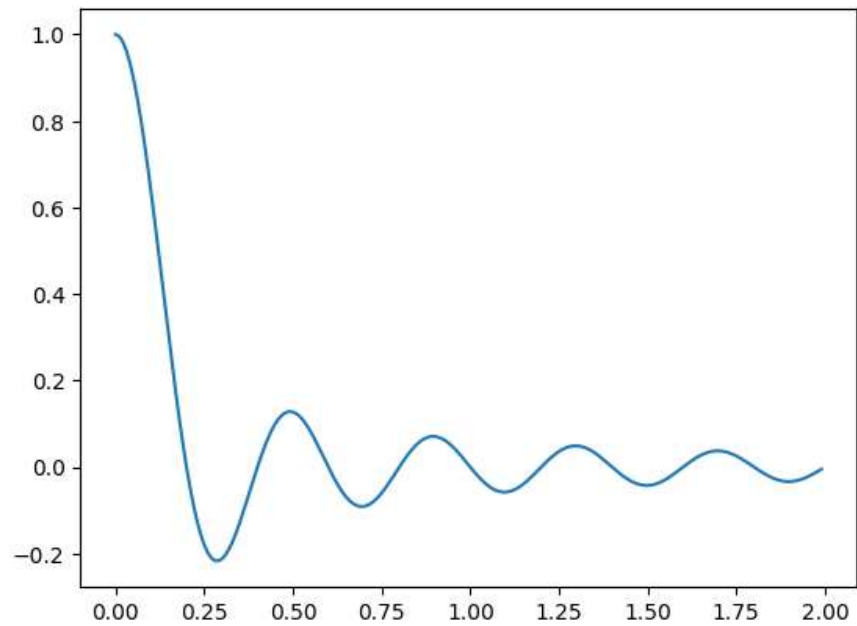# Assignment 8

Reconstruction of image using DAS algorithm
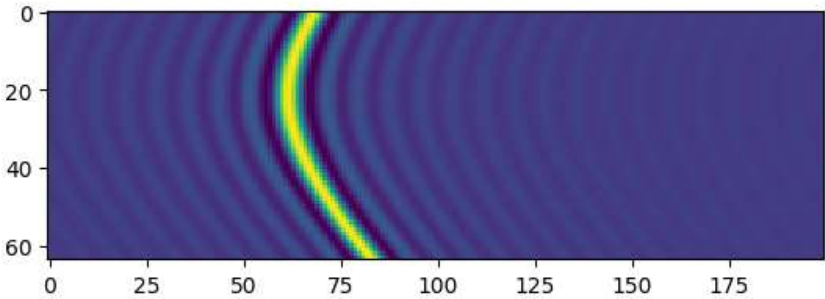
Parameter that changes sharpness of sinc pulse

The parameter that could be changed is C. For a given dist_per_samp if C is high time delay between samples is low. Thus the sinc pulse looks smeared or spread out. At low value of C it decays quite quickly. Thus `lower the value of C, higher is the sharpness of pulse`
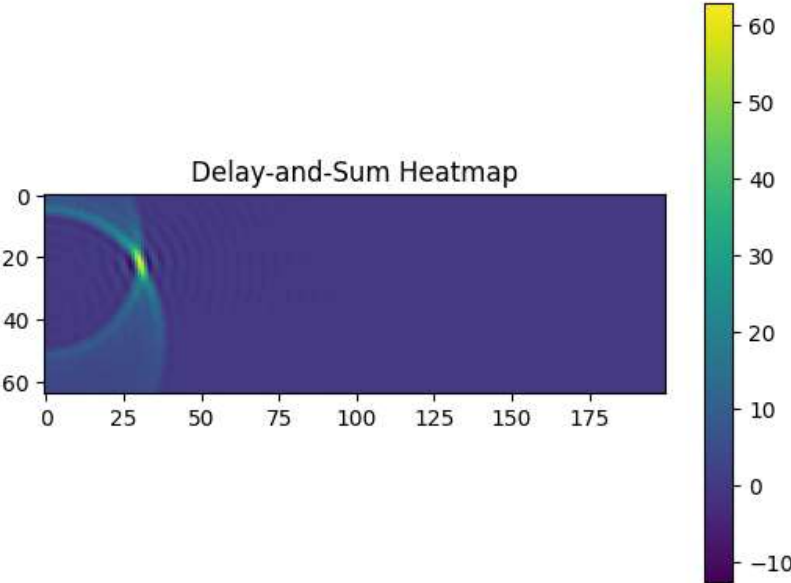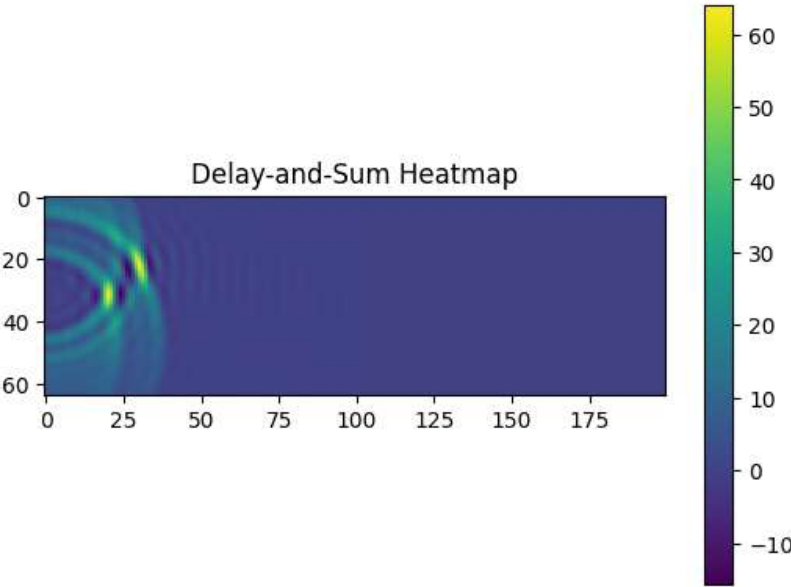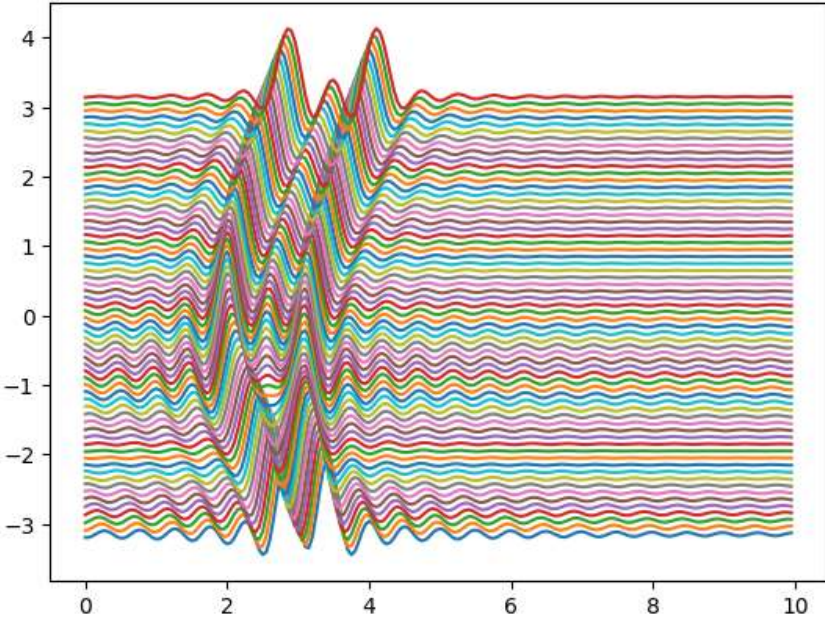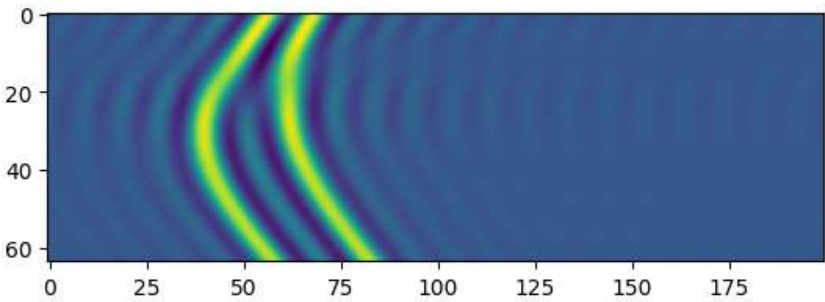
Generating Mic Output
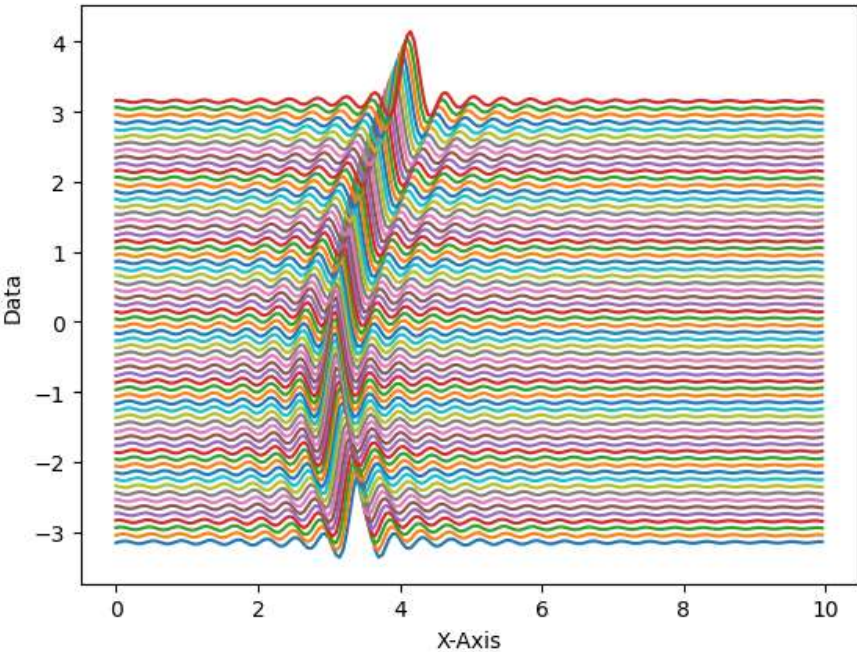
Heatplot

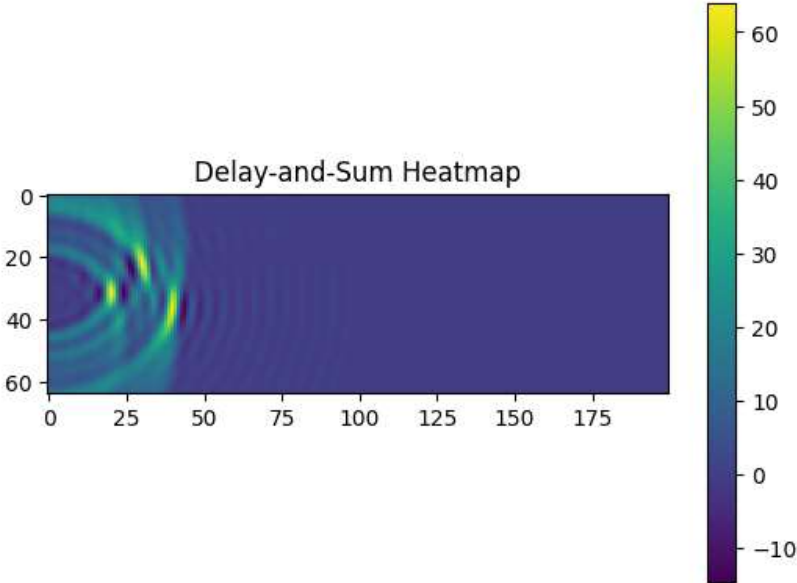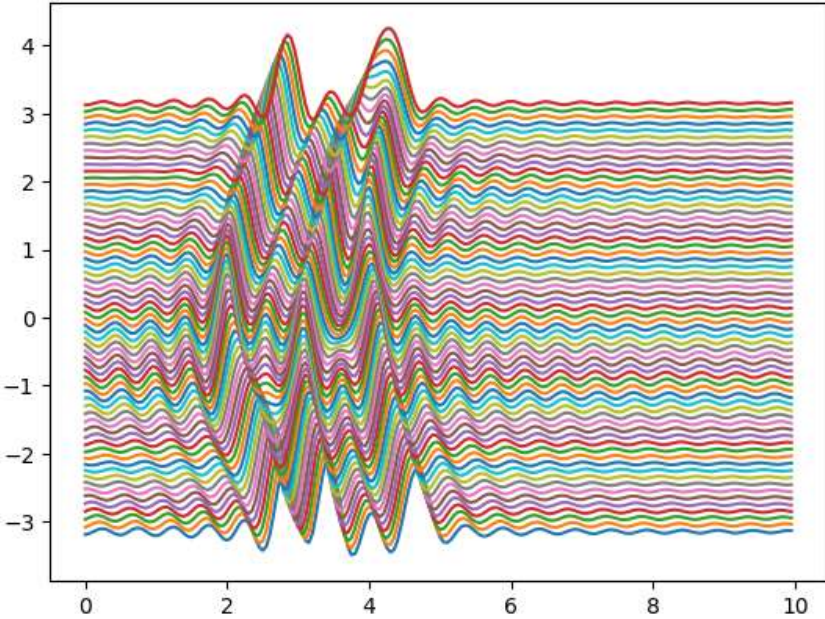**Delay-and-Sum algorithm**

2 obstacles

Delay-and-Sum Heatmap

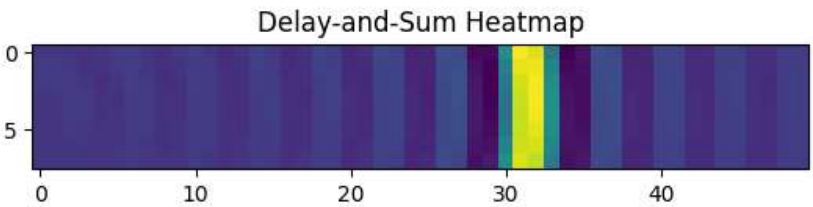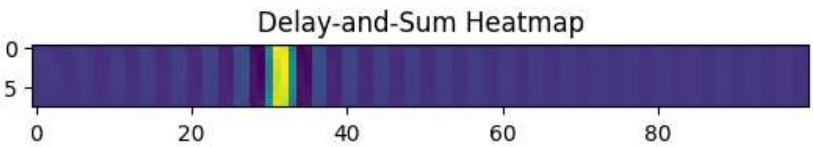The obstacles appear to be placed at (2,0) and (3,1)

3 obstacles

Delay-and-Sum Heatmap
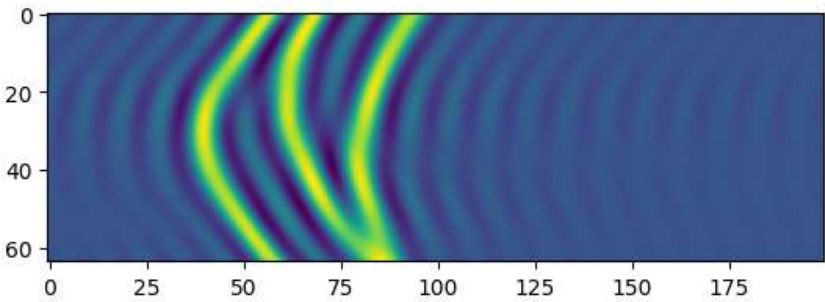
The obstacles appear to be placed at (2,0), (3,1) and (3.7,1)

Heatmap with 8 microphones

Nsamp=50

Delay-and-Sum Heatmap

Nsamp=100

Delay-and-Sum Heatmap

Nsamp=200

Delay-and-Sum Heatmap

Heatmap with 32 microphones

Nsamp=50

Delay-and-Sum Heatmap

Nsamp=100

Delay-and-Sum Heatmap

Nsamp=200

Delay-and-Sum Heatmap
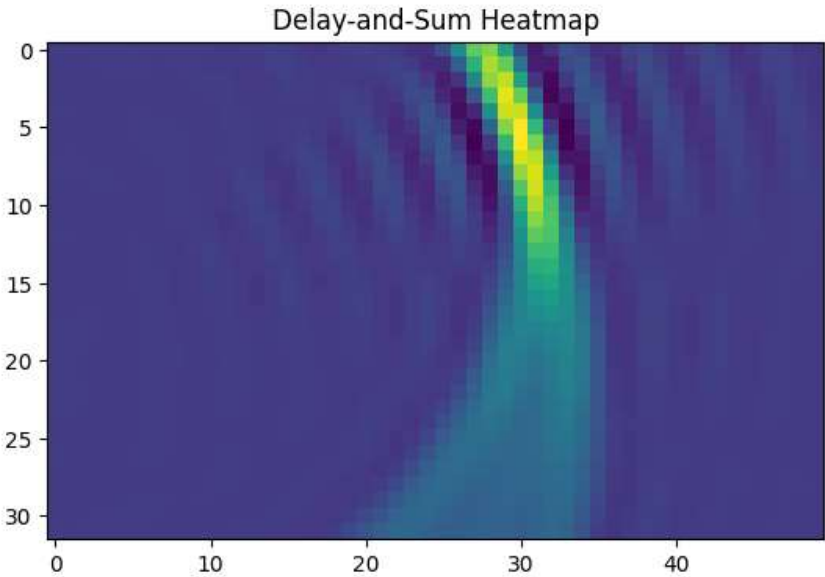
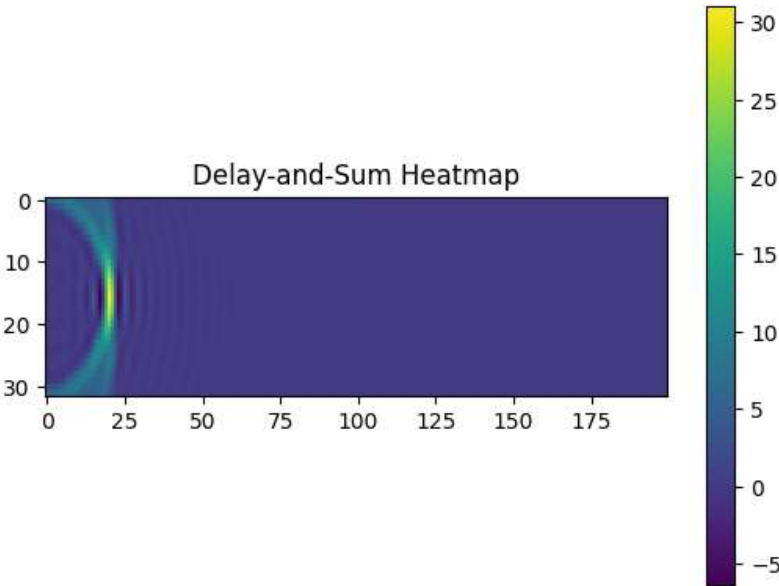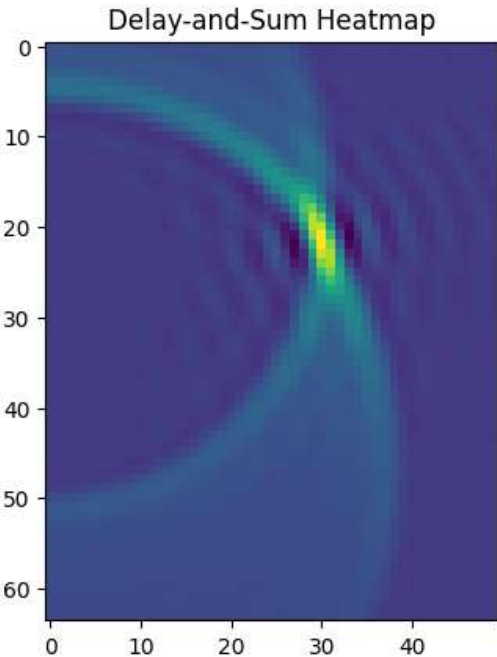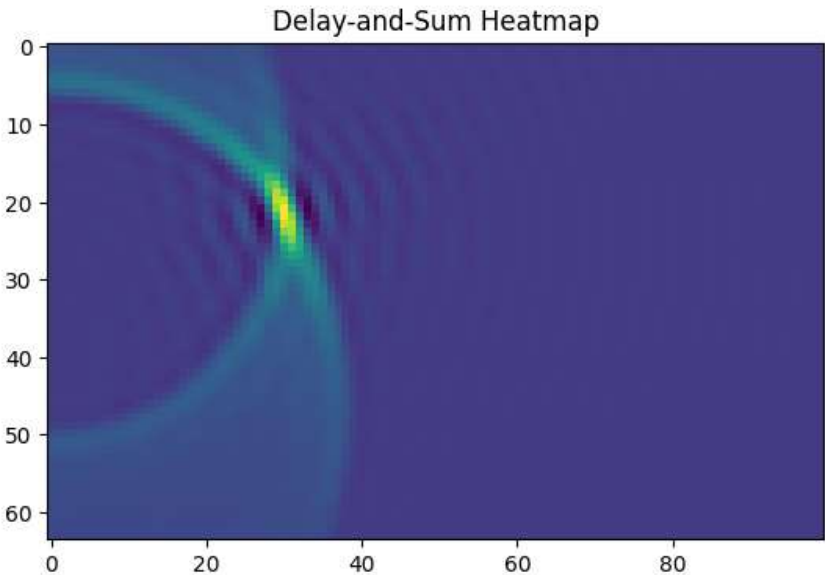# Heatmap with 64 microphones

Nsamp=50.

Nsamp=100

Nsamp=200