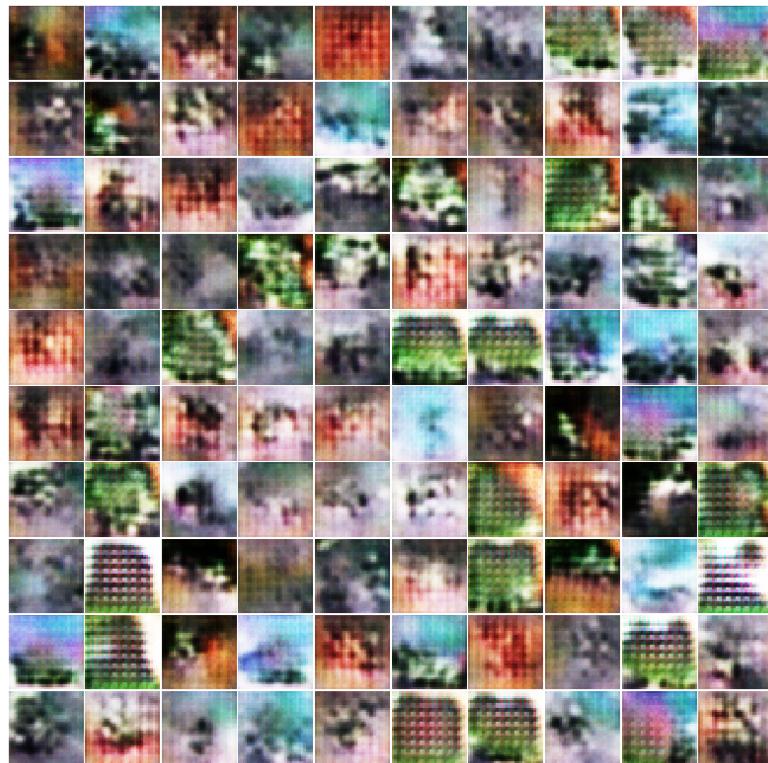
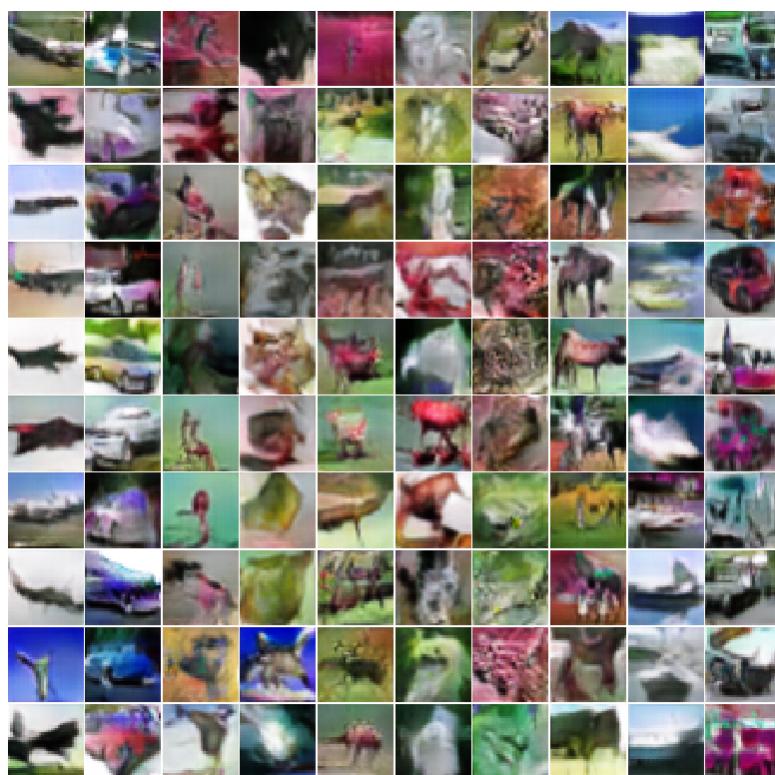


HW6
Jingyu Li

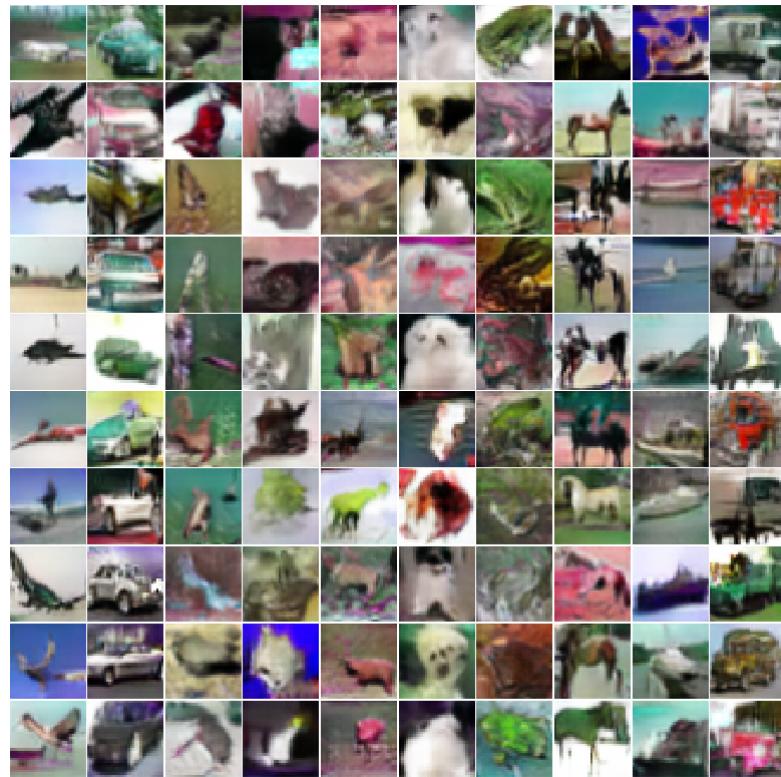
Question 1:
Epoch 0



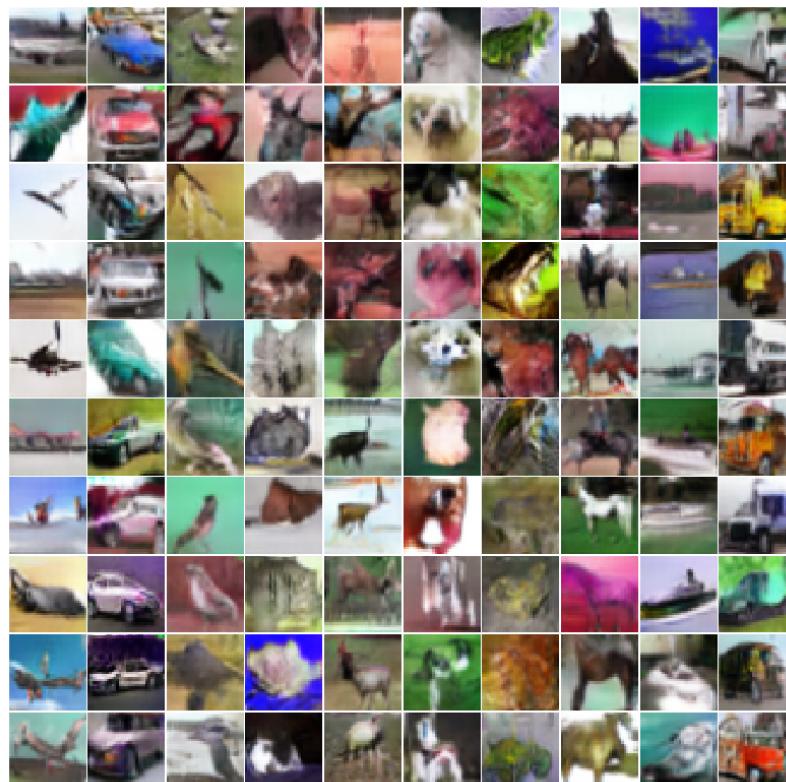
Epoch 19



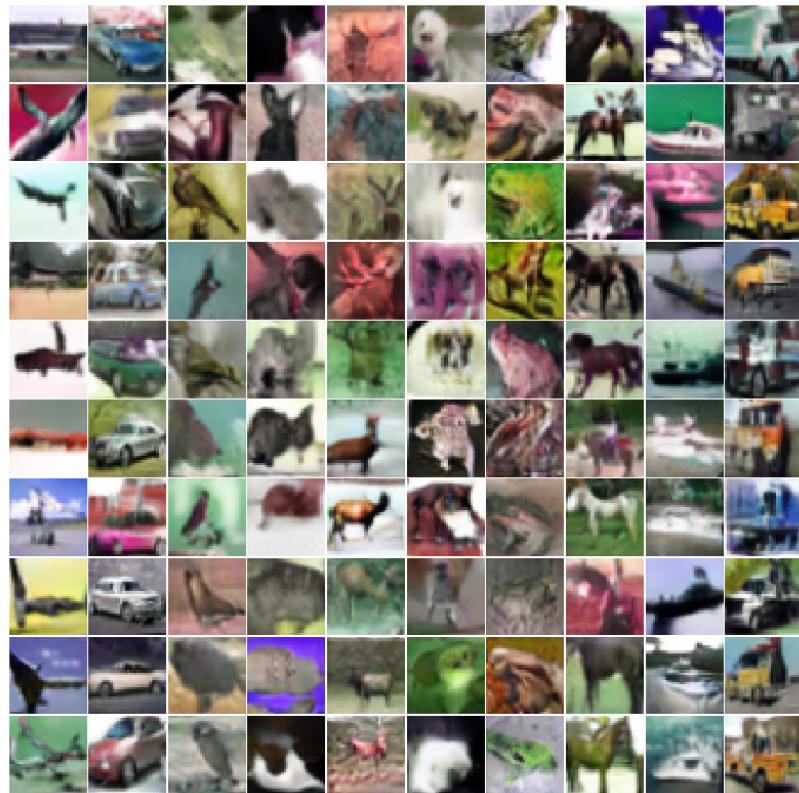
Epoch 59



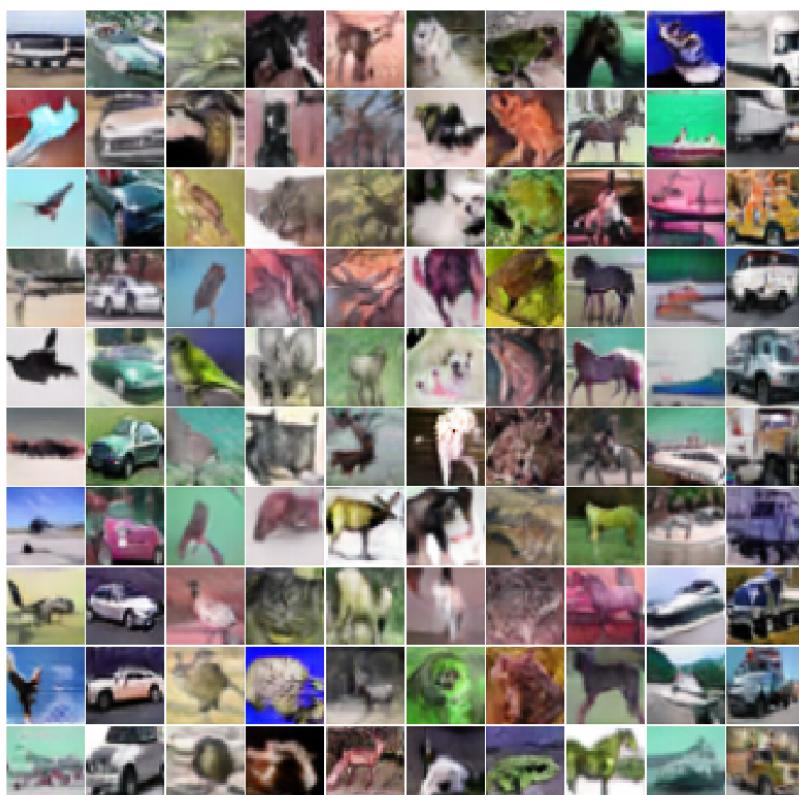
Epoch 99



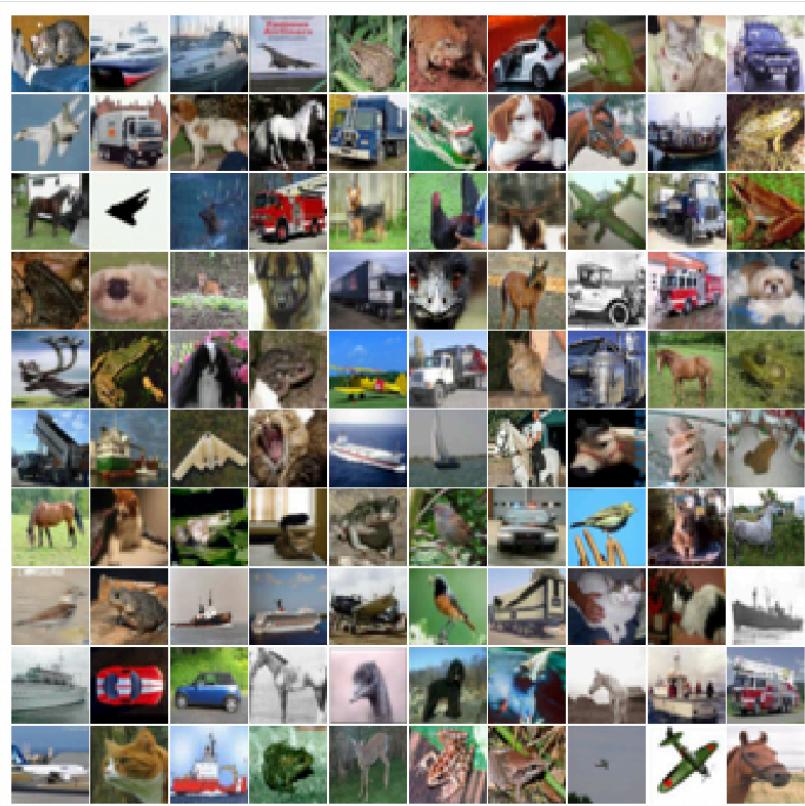
Epoch 149



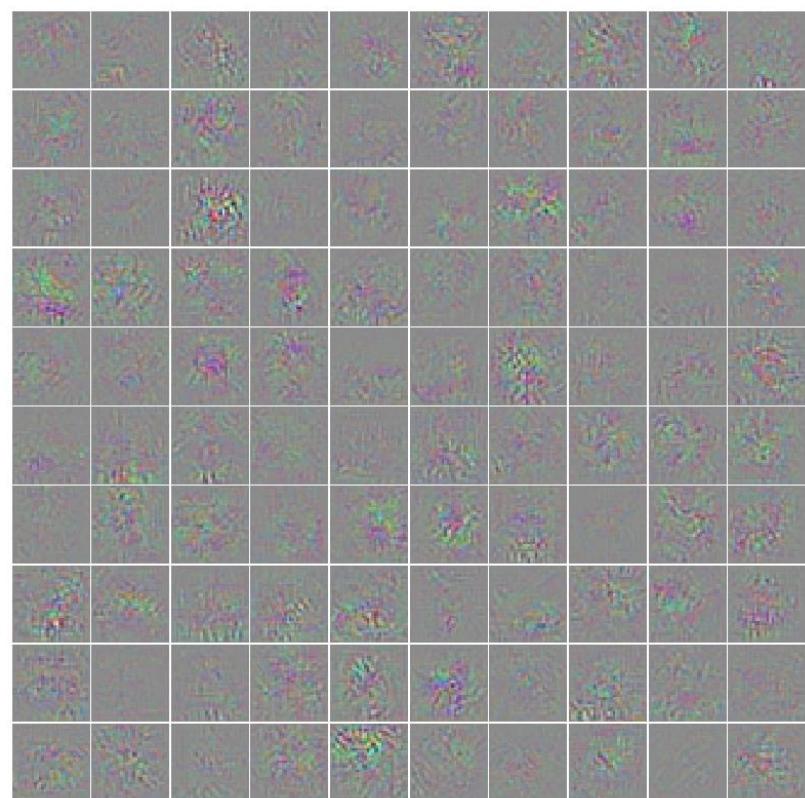
Epoch 199



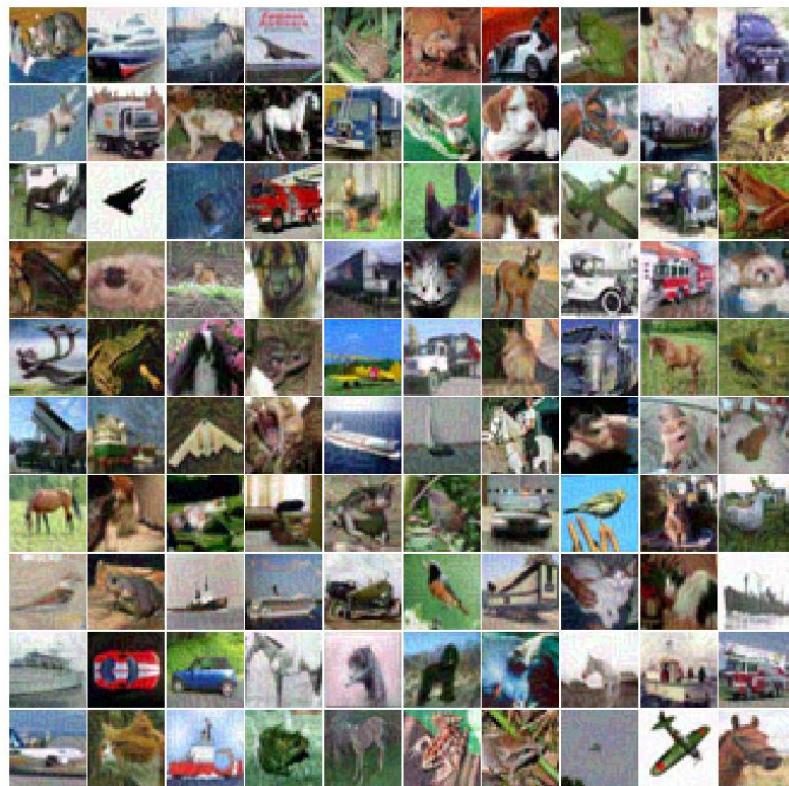
Question 2:
Real Images



Gradients from an alternate class for these images



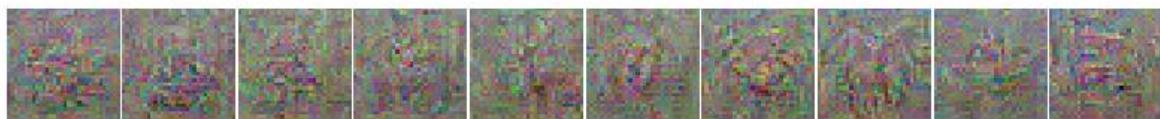
Modified images



Question 3:

Synthetic images maximizing the class output

For discriminator trained without the generator:



for discriminator trained with generator



Question 4:

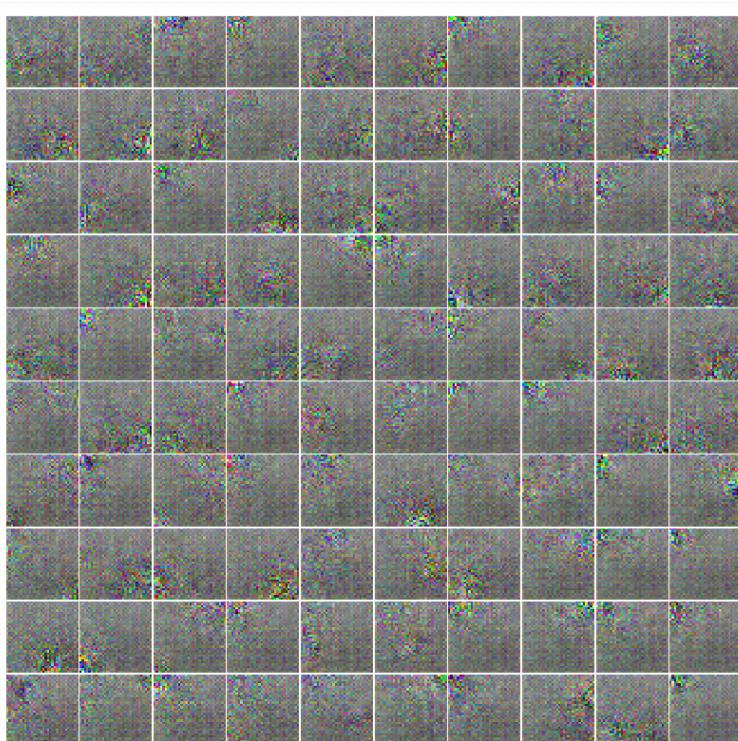
Synthetic images maximizing a particular layer of features

For discriminator trained without the generator

Synthetic images maximizing layer 4 of features

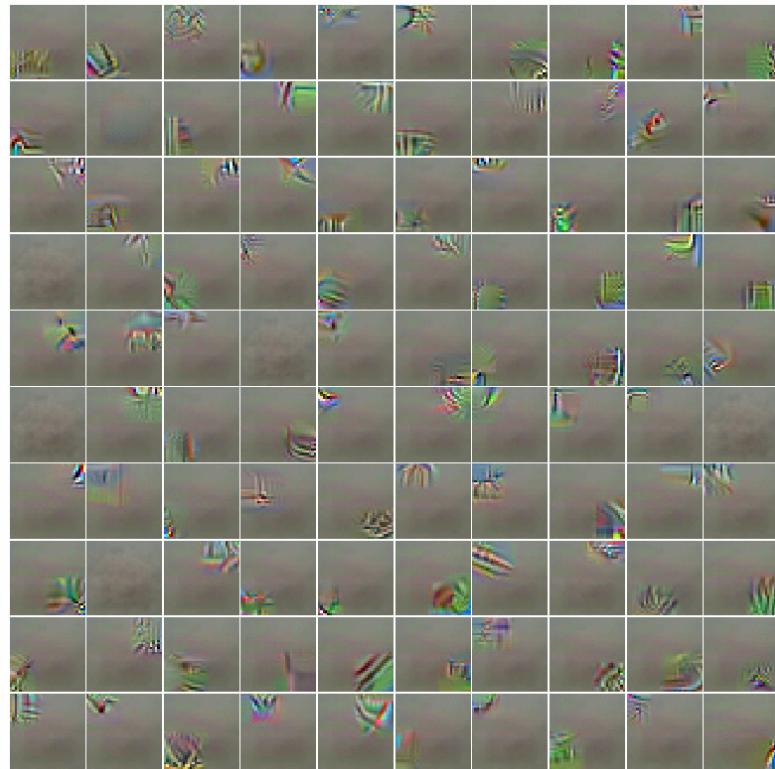


Synthetic images maximizing layer 8 of features



For discriminator trained with the generator

Synthetic images maximizing layer 4 of features



Synthetic images maximizing layer 8 of features



Question 5:

Test accuracy for discriminator trained without generator = 89.09%

Test accuracy for discriminator trained with generator = 83.47%