Lab 1 Assignment

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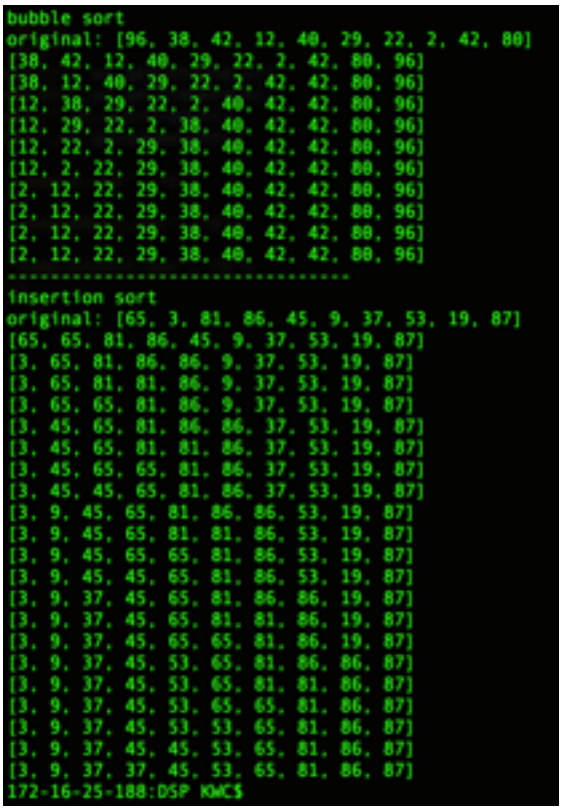
Assignment 1:

No document needs to submit

Assignment 2:

1.2. See fileLab_1_ASGMNT_2_1_kwc305.py, it have 2 sorting method, include bubble sort and insertion sort. And I print out the file. I generate 2 random number list range from 1 to 100, and then do the bubble sort and insertion sort.

3.For the time complexity, both two method have the same time complexity n square. So, it should have the same time.

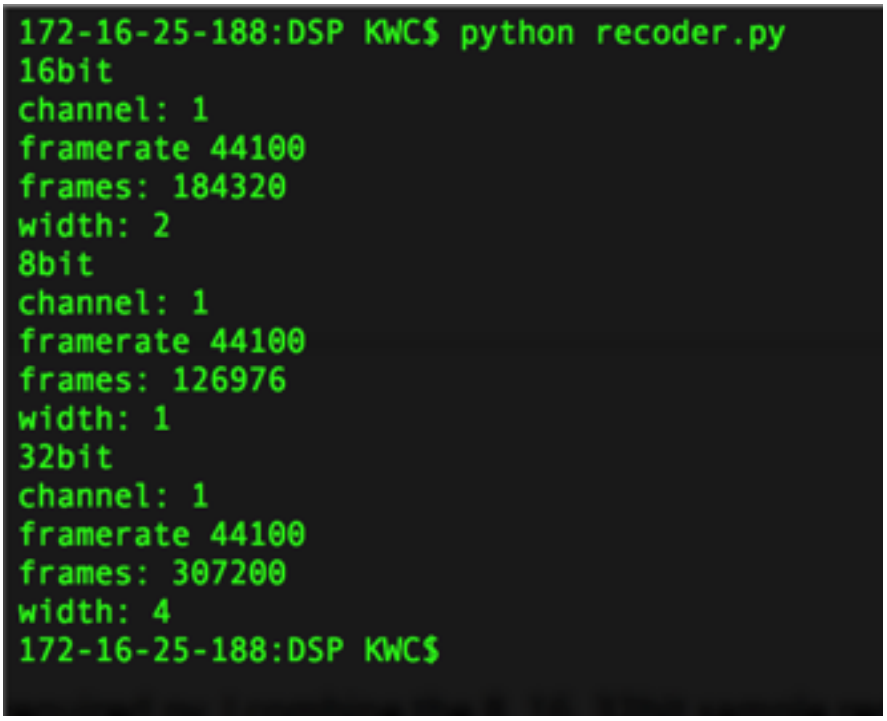


Assignment 3:

1. see sample16bit.wav

2. see Lab_1_ASGMNT_3_2_kwc305.py file

3. For this problem, see the file required.py, I combine the 8, 16, 32bit sample record file into one code file, which provide 3 output.



4. The frame size and is the sample width because this audio record is monotonic

16bit's width is 2

Depends on how many channels it use to record

width value = byte per sample * numbers of channels

since in the file I use mono channel to record, 8bit's width is 1, 16 and 32 bit is 2 and 4