1. I first read in all of the input numbers in an array of floats and then I split them up based on positive and negative. After this, I sort them each using radix sort and its own positive and negative buckets. In the end, I reverse the negative bucket and then assign each one of them in the original first before starting to put all of the positives in the output array.
2. I first read in all of the input numbers in an array of integers and then I again split them up again based on positive and positive. Then instead of going through each of the 32 bits in an integer, I go through it 8 times since I am sorting it using hexadecimal so it's 32/4. I make a mask for each of the 8 4-bit locations and then I do radix sort on them. I again reverse the negative numbers and then combines the negatives and positives.