CSE 373 Practice Problems, Round 1

1) Given a value ‘x’ and an array of integers, determine whether two of the numbers add up to ‘x’:

2) Given an array of integers, return a new array of the same values without any duplicates

3) Given an array that contains the values 1 through ‘n’ two times each, find the one number that is contained only 1 time.

4) Given a list of integers, find the highest value obtainable by concatenating them together.
For example: given [9, 918, 917], result = 9918917
For example: given [1, 112, 113], result = 1131121

5) Given a very large file of integers (more than you can store in memory), return a list of the largest 100 numbers in the file

6) Given a list of strings, write a method that returns the frequency of the word with the highest frequency.

7) Given a list of strings, write a method that returns a sorted list of words based on frequency

8) Given an array of strings, where each string is sorted lexicographically, determine the order of characters in the given alphabet.
For example, given the english alphabet, the ordering is: “a,b,c,d,e,f . . . x,y,x”.

Your output should be the lexicographic order of only the characters that were found in the input strings.

For example: input = [xyz, yk, zk, xm, my], then the output would be [x,m,y,z,k]