“You are given a dictionary (dictionary.txt), containing a list of words, one per line. Imagine you have seven tiles. Each tile is either blank or contains a single lowercase letter (a-z).  Please list all the words from the dictionary that can be produced by using some or all of the seven tiles, in any order. A blank tile is a wildcard, and can be used in place of any letter.

Try to use a minimal amount of memory.

1. Find all of the words that can be formed if you don't have to deal with blank tiles.

2. Find all of the words that can be formed, including those where blank tiles are used as wildcards.

3. Please bear in mind you will need to process several hundred of 7-tile sets with the same dictionary.

Expectations:

a) Please write down the reasoning or the explanation behind your solution in plain English or pseudo-code. Please do a big O analysis of your solution, need not be overtly mathematical, an informal big O analysis will do.

* Prompt user to type seven characters where space will be treated as a blank tile.
* Using BufferedReader, read and iterate though dictionary and only considering words that are less than or equal to seven letters in length.
* Reading user’s input and matching the characters with letters in the words to make a word that uses increments of tiles.
* Return the list to console.

b) Please provide the source code of your implementation.

Check zipped file.

c) Please include instructions on how to compile and run your code.

Check readme.txt file for instructions.

d) Bonus points for source code in C/C++/C#. “

I apologize for my code being in Java. I didn’t have windows computer on me so I had to do this on mac and I never came across any good compilers of C# on mac other than Xcode that does C. But I used Eclipse which is more trust worthy when it comes to java on mac.