1. Whats Complexity of your search code ? Code Complexity for creating the Tree and Searching a word in a tree mention both. Any bugs in your code ?

The Code Complexity for creating the tree is is n\*k where n = number of words in data file

K=height of tree

Search complexity of the Searching is equal to the length of the word. But the word-predication complexity is or n\*k

Where n = number of predicted word within result

K is the length of words

Yes, it contains a bug. If I give to search the empty (ctrl+Z) string as console input. It’s show the whole data as output. That’s suppose not to be done. I am failed to handle this corner case.

2. What's the Code complexity of the Second assignment?  Can it be optimized?

The Code complexity of the Second assignment is for the input integer n. The Space complexity of the code can be optimized by making the solution within main or with calling void function Instead of using the vector to store the result position in called function.