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Written Report Assignment #6

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1. I did what I always do, I read through the prompt and made a check list of everything the prompt. After that I broke that down into methods and went through and started making methods, I feel like my program is very well decomposed. The only real difficulty I had was I was doing a lot of string manipulation which is very time consuming, but I found a way around that.
2. I wrote a couple Junit tests with a couple .txt files. I used a simple text file with just 2 lines of text and then used a book with over 500 thousand words in it. I just compared the decoded message with the actual file to see if they were the same.
3. For a short test, like Seattle Seahawks Season, I did the whole thing by hand. I then compared the decoded message with the file like I did with all of them, but I also printed out its Hoffman tree and compared that to the one I did by hand. My tree was slightly different probably because my priority queue was sorted differently but other than that it was close enough. I just had a slightly different path to some letters.
4. I learned a lot about trees and binary trees in general, I have never used them and was excited to use them on a project. This project was super fun and felt like it had some sort of real-world application, a lot of projects we do in school don’t always feel that way.
5. I did not use any references besides what was in the prompt.