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Lab 6 Write-up

Analysis:

1. Yes this is an example of a binary search tree. Each leaf can only have two children which means it is binary and the tree is sorted by frequency of characters.

2. I think it would be beneficial to balance the tree since more characters would have fewer bits to represent them. Although I am not sure that it is always beneficial to do that and the bigger the input the less a balanced tree might make sense.

Summary:

1. I worked with Jared Conroy

a. Jared came to my room and we worked together, only one of us wrote code but the other explained logic and we both troubleshooted when an error came up

b. I typed the code, but Jared was very helpful in helping decipher the logic that was contained in the problem.

c. When sat down and did this project in one sitting and only one of us wrote code so we had no need to coordinate changes.

2. The toughest part was actually making sure the tree was made correctly, surprisingly the first implementation worked but our method of printing a tree was terrible and we couldn't actually see if we did it right.

3. This is definitely the most I have used a tree and I feel like I a much much firmer grasp on the concepts and uses of a tree