

Random attendance System

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CS213 Q 1: Lecture 15: Consider constructing a Huffman encoding tree based on the frequency of characters in the string S1 = “NIRANTARATA” (which means continuity) and S2 = “ABAAB”. Using the constructed Huffman tree, determine the validity of the following statements:

In S1, the letter 'N' will have a Huffman encoding of length 4.

In the string S2, the Huffman code for 'A' could be "0" and for 'B' could be "11".

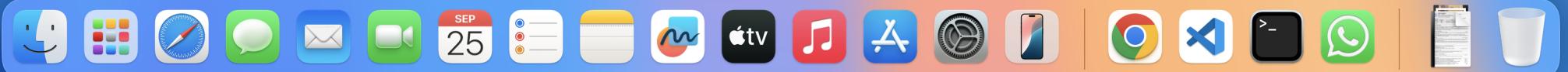
In the string S1, the letters 'N' and 'R' will all have Huffman encodings of the different length.

In the string S2, both letters 'A' and 'B' will have Huffman encodings of the same length.

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS213 Q 1: Lecture 15: Consider constructing a Huffman encoding tree based on the frequency of characters in the string S1 = “NIRANTARATA” (which means continuity) and S2 = “ABAAB”. Using the constructed Huffman tree, determine the validity of the following statements:

You have answered the following:

- In S1, the letter 'N' will have a Huffman encoding of length 4. (You are correct)
- In the string S2, the Huffman code for 'A' could be "0" and for 'B' could be "11". (You are correct)
- In the string S1, the letters 'N' and 'R' will all have Huffman encodings of the different length. (You are incorrect)
- In the string S2, both letters 'A' and 'B' will have Huffman encodings of the same length. (You are incorrect)

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