



Homework

1. For the following text file, find out the number of occurrences of A, B, ..., Z and the space ('a' taken as 'A', 'b' as 'B', etc.)
 - a). carry out the Huffman coding and calculate the number of bits needed to store this text file
 - b). how many bits are needed if we simply apply the ASCII coding scheme?

Samsung still appears to be exclusively using its eight core Exynos five four two zero as the S six app processor Though the *WSJ* does not state whether Qualcomm will do so there is a chance the company will also supply complementary RF transceiver power management and envelope tracking ICs in units containing its modems as is the case with the iPhone six which relies on a Qualcomm modem and several complementary chips to go with Apple A eight app processor



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2. Calculate the HD between the following two bit sequences:
 - a) 1001100111000
 - b) 0101110001001
3. Generate a code, i.e., a set of codewords, with the following property:
 - 4-bit codewords with three information bits and with single error detection capability i.e. min HD = 2
 - Can we find 4-bit codewords for 3 information bits with one error correction capability? Justify your answer.