**Exercise 7. Answer Sheet**

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***Problem 1.***  (20 point) Consider following sequence of letters:

ABBCACCEACBCCFABCDAFEABFFADBBC

a) (10 points) Construct Huffman encoding tree for the above sequence and show it below

Put your answer here

テキスト, 地図 が含まれている画像

自動的に生成された説明

b) (10 points) What is the code for each letter:

A:0

B:01

C:10

D:1110

E:1111

F:110

***Problem 2.*** (25 points) What is the Huffman code for the following set of frequencies, based on the first 8 Fibonacchi numbers?

A: 1, B: 1, C: 2, D: 3, E: 5, F: 8, G: 13, H: 21

A:11111110

B:1111110

C:111110

D:11110

E:1110

F:110

G:10

H:0

***Problem 3.*** (15 points)Write your name in English letters and construct Huffman tree and code for it. Show your tree and code below.

TSUYOSHI KUMAMOTO

地図 が含まれている画像

自動的に生成された説明

O:01 U:001 M:011 T:010 S:101 K:0001 A:1001 Y:1000 H:00001 I:00000

***Problem 4.*** (40 points)Make a program implementing Huffman encoding. Upload your code with usage example.