

IT252 Homework 10

Problem 1. [DPV 5.14] Suppose the symbols a,b,c,d,e occur with frequencies $1/2$, $1/4$, $1/8$, $1/16$, $1/16$ respectively.

- a) What is the Huffman encoding for the alphabet?
- b) If this encoding is applied to a file consisting of 1,000,000 characters with the given frequencies, what is the length of the encoded file in bits?

Problem 2. [DPV 5.15]

Problem 3. [DPV 5.16]

Problem 4. [KT] Chapter 4. Exercise 6 and 7.

Problem 5. Problem in section 4.2: Scheduling to minimize lateness.

Problem 6. [DPV 5.30]

Problem 7. [DPV 5.31]

Problem 8. [DPV 6.1 to 6.4]