

Exercises on MMDB SS 2023

University of Passau

Prof. Dr. Mario Döller, Prof. Dr. Harald Kosch, Kanishka Ghosh Dastidar, Alaa Alhamzeh

Exercise Sheet 6

Subject: Compression Part 2

Aufgabe 1: LZW Compression

Use the Lempel-Ziv-Welch Algorithm to encode and decode the following string of characters:
MISSISSIPPI

Aufgabe 2: Huffman Coding

Generate the Huffman code (incl. code tree) for the following symbols.:

Symbol	A	R	Y	O	S	T	X	U
Probability of Occurrence	30.1%	17.5%	21.5%	14.9%	9.3%	2.2%	2.3%	2.2%