

Tutorial 11: April 1

1. Apply Huffman encoding on the string $s = \text{CELESTEELA}$. Show the resulting decoding trie and give the encoding for s .
2. Consider Run-Length Encoding compression.
 - a) Encode the string $s = 11111111000001111011111100000000000000000000$ using RLE.
 - b) Decode the string $c = 111001011010010011$ using RLE.
3. For the following LZW problems, consider the initial dictionary to be the ASCII table.
 - a) Encode the following string using LZW: `BANANA_BANDANA`
 - b) Decode the following encoded string using LZW:

71 – 73 – 86 – 69 – 95 – 77 – 131 – 82 – 69 – 128 – 137 – 65 – 83