## Arithmetic Encoding Tutorial Exercise

## Exercise

Consider a source with alphabet A consisting of symbols $\{\mathrm{a}, \mathrm{b}, \mathrm{c}\}$ with probabilities $\{0.50,0.25,0.25\}$. Encode sequence 'acbaabaca' using arithmetic encoding and afterwards decode it. Compare the average bit rate of arithmetic encoding with that of Huffman encoding.

