(Huffman code) You are given a finite set of messages, and for each message, the
probability of its occurrence.
(a) Write a program to find a binary code for each message. It must be possible to
unambiguously decode any sequence of 0s and 1s into a sequence of messages, and the
average code length (according to message frequency) must be minimum.
(b) Write the program to produce the decoder for the codes produced in part (a).