Huffman codes

Implement Huffman's algorithm in the language of your choice using a min-priority queue. Given a table of characters and their frequency, construct a Huffman tree. Once the tree has been built, your program will be able to:

1. encode a sequence of characters into a string of 1's and 0's, and
2. decode a string of 1's and 0's into a sequence of characters.

To demonstrate program operation, the table of characters will be in "data220.txt" on Moodle. Teams will then be given a sequences of characters to test (1) and strings of 1's and 0's to test (2).

Comment your code well for clarity and list any references used. Create a project "CSCI220_Project_X" where X is your team number and upload your submission to our Moodle course page.

Date	Item	Email	Points
Dec 6	**Demo**, Demonstrate program operation in class	X	8.0
Dec 12	**Final version** of program due	X	12.0
			20.0

All items are due at 10:00 am on the Due Date. Late assignments will not be accepted.