Your assignment is to finish implementing the Huffman encoding process to include decoding. Your solution will be called Huffman.java.

It will accept command line parameters using the following flags.

-i input file name

-o output file name

-e encode

-d decode

The program would then be executed as follows.

java Huffman -i war\_and\_peace.txt -o compressed\_file.comp -e

java Huffman -i compressed\_file.comp -o war\_and\_peace\_decoded.txt -d

diff war\_and\_peace.txt war\_and\_peace\_decoded.txt

…should return no differences

**Grading:**   
Correctness: You can lose up to 20% if your solution is not correct   
Quality: You can lose up to 20% if your solution is poorly designed   
Testing: You can lose up to 20% if your solution is not well tested   
Explanation: You can lose up to 40% if you cannot explain your solution during the grading session