DATA STRUCTURES

Huffman Coding

Priority Queues

Binary Trees

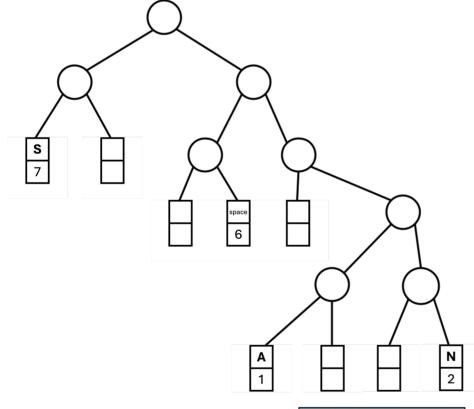
Bits

HuffmanCoding

Consider the following priority queue formed from the frequencies of characters in an input string.



1. Complete the Huffman Coding Tree below by (1) filling in the nodes and (2) labelling the edges (0 for a left edge, 1 for a right edge).



2. Write the encoding (bit sequence) for each character underneath the leaf nodes.



3. Use your Huffman Coding Tree to decode the following bit string:





WordSearch

priority, height, node, Huffman, complete, heap, binary, queue, tree, full, path, bit

C H C O M P L E T E Q Q V E E E Y M K Q B P U K I N Q F H W C I R E E Y I U E B P N N I U R X L A I A X C A O E N L P T T X U J R R H O M T H H K Q T Y I C D R H U F F M A N T B E Z F H E I G H T Y E