

CMPT 225 Assignment IV

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Huff:

- Main file for compressing data.
- Compresses and decompresses data of given file.

FrequencyCounter:

- Counts frequency of characters.
- Input: array of characters and array length.
- Methods: `getFrequency(int i)` returns the frequency of the character related to that integer.

PriorityQueue:

- Orders objects based on value associated with said objects (low to high).
- Methods: `enqueue`, `dequeue`, `peek`.

Huffman:

- Builds a tree based on `huffNodes`.
- Tree has highest priority nodes closest to root.
- Methods: `Huffman(Huffman lc, Huffman rc)`, constructor for combining trees.
- `getWeigh()` returns weight of tree.
- `fillCodes(huffNode<int> *r, string *codes, string &code)` fills codes into a string array for the paths to each node.

Number of bytes in header.

Data to build Huffman tree. Character number followed by frequency of character.

Compressed data:

list of paths in the Huffman tree to each character.