

Master “C Language” in 30 Days Challenge

(By Tech Involvers)

Project 7: File Compression Tool

Instructions:

- Read the problem carefully before trying to solve it.
- Do the tasks on your own. Don't copy it.
- The output of your program must be the same as given in the sample run.

Overview:

Create a tool to compress and decompress files using algorithms like Huffman coding or Run-Length Encoding (RLE).

Requirements:

- Implement file compression and decompression.
- Support for different compression algorithms.
- Command-line interface to use the tool.

Steps:

1. Implement Huffman coding or RLE algorithms.
2. Develop functions to compress and decompress files.
3. Create a command-line interface to take file input and select the compression algorithm.
4. Test the tool with different types of files to ensure it works correctly.