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FUNCTION(compress):
    INPUT sentence
    sentencelist = sentence.split
    words = []
    index = 0
    FOR word IN sentencelist:
        IF word NOT IN words THEN:
            words[word] = index
            index = index + 1
        ENDIF
    FOR word IN sentencelist:
        WRITE words[word] TO index.txt
        WRITE word TO words.txt
    OUTPUT "File compressed into indexes and words."

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FUNCTION(decompress):
    INPUT filename
    words = []
    count = 0
    OPEN (filename):
        FOR word IN (filename):
            WRITE word TO words
            count = count +1
        CLOSE
    sentence = " "
    i = 0
    WHILE i does not equal count:
        FOR word IN words:
            sentence = sentence + word(i) + " "
        ENDWHILE
    i = count
    sentence = sentence + word(i) + "."
    OUTPUT sentence
    OUTPUT "This is what I could put together from the file."

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FUNCTION(menu):
    OUTPUT "What do you want to do?"
    OUTPUT "1. Compress a file"
    OUTPUT "2. Decompress a file"
    OUTPUT "3. QUIT"
    INPUT choice

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IF choice = 1 THEN:
    GOTO compress
ELSEIF choice = 2 THEN:
    GOTO decompress
ELSEIF choice = 3 THEN:
    QUIT
ENDIF
GOTO MENU
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