Advanced Search Pseudocode

This assignment took 2 Hours
The hardest part of this assignment was determining the keywords and how to define
them in pseudocode.
Nothing was too unclear about this Lab.


```
main()
    # Open JSON file and save contents
    READ json file
    words <- file.loads
    # Ask user for a word to find
    GET searchWord
    wordFound <- False
    # Begin loop to find word
    WHILE wordFound == False
        # Set length of list as end variable
        endpoint <- words.length
        # Set start of list as start variable
        startpoint <- words[0]
        # Set sortpoint as the middle of the range in the list
        sortpoint <- (startpoint + endpoint) / 2
        # If the word comes after the sortpoint, then set sortpoint as new startpoint
        IF searchWord > sortpoint
            startpoint <- sortpoint
        # If the word comes before the sortpoint, then set sortpoint as new endpoint
        ELSE IF searchword < sortpoint
            endpoint <- sortpoint
        # If the word is found at the sortpoint, then set wordfound to true and print
          found
        ELSE IF searchword == sortpoint
            wordFound <- true
            WRITE this word exists at page sortpoint
        # If all other conditions failed, then the word is not found
        ELSE
            wordFound <- true
            WRITE this word does not exist
    END
```