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Lab05 - Advanced Search

-How long did it take for you to create this pseudocode?

It took me around 4.5 hours in reading, practicing and trying different things for it.

-What was the hardest part of the assignment?

The hardest part to me was to understand the logic, at this point I'm not sure if it will work in real code. The keywords weren't so hard, but trying to combine the logic with the keywords took me a good amount of time. I feel that there is something missing, but I don't know what is.

-Was there anything unclear about the instructions or how you were to complete this lab?

It was clear, but my perspective wasn't enough to understand it after many tries.

PROMPT for a file containing a collection of words

```
data_JSON <- data_text
```

```
search_word <- GET word to search for
```

```
advanced_search(data_JSON, data_JSON.length, search_word):
```

```
    low_index <- low index in the collection
```

```
    high_index <- high index in the collection
```

```
    WHILE low_index <= high_index:
```

```
        mid_index <- use the formula (low_index + high_index) / 2
```

```
        IF index(search_word) == data_JSON[mid_index]
```

```
            return mid_index
```

```
            PUT the search_word exists in the list
```

```
        ELIF index(search_word) > data_JSON[mid_index]
```

```
            low_index = mid_index + 1
```

```
        ELSE
```

```
            high_index = mid_index - 1
```

```
    PUT the search_word doesn't exist in the list
```