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**Module 4 - Exercise 2 Pseudocode**

**\*Before we begin, assignment seemed to be focused towards what page the chosen word would be found in the dictionary, so I structured it for that purpose. The program is intended to function like an index for all words by narrowing page ranges\***

**Start**

**Define Words = All words in dictionary**

**Define ChosenWord = “Pick a word in dictionary”**

**Define PageNumber = any page in dictionary**

**Define CurrentPage = current page number**

**Define NexxtPage = the next page**

**Define FirstLetter = first letter of Word**

**Define NextLetter = next letter of Word**

**Define PreviousLetter = previous letter of Word**

**Define LetterPageRange = PageNumber range containing Words where FirstLetter matches ChosenWord FirstLetter**

**Define NextPageRange = PageNumber range where all PreviousLetters match AND NextLetter matches ChosenWord NextLetter**

**Input ChosenWord**

**Calculate LetterPageRange then**

**Calculate NextPageRange then**

**Repeat NextPageRange until NextLetter of Words doesn’t match NextLetter of ChosenWord then**

**If ChosenWord is located on CurrentPage then**

**Display = “ChosenWord is located on CurrentPage”**

**Else search NextPage then**

**Repeat until ChosenWord found then**

**Display = “ChosenWord is located on CurrentPage”**

**stop**