CSE 130
Lab 5: Advanced Search Design
Pseudocode Outline

GET file_name from user
OPEN file_name
READ line as a full line of text from file_name and add to file_list
GET word from user

advanced_Search(file_list, word)
      SET start <- 0
      SET end <- len(file_list) – 1

      WHILE start <= end
            SET mid <- (start + end) / 2

            IF file_list[mid] == word
                  RETURN "We found {word} in {file_name}."
            ELIF word < file_list[mid]
                  end <- mid - 1
            ELSE
                  start <- mid + 1

      RETURN "{word} not found in {file_name}."

PUT advanced_Search(file_list, word) on the screen
END