**MAIN ALGORITHM**

1. **PRINT** 'Welcome to Word Find.'
2. **SET** *score* to 0, set *user\_words* to an empty list // Initialise variables
3. **SET** *API\_key* to your api key value // Initialise variables
4. **SET** letters 🡨 **select\_letters** // Initialise the list of the letters
5. **PRINT** 'Came up with as many words as possible from the letters below!'
6. **WHILE** TRUE
   1. **PRINT** *score*
   2. **display\_letters** // Display letters in the command window
   3. **GET** *input* // A word or any of these characters: s, l, e
   4. **IF** *input* is ‘e’ or ‘E’
      1. **PRINT**
      2. **BREAK**
   5. **ELSE IF** *input* is ‘s’ or ‘S’
      1. Shuffle*letters*
   6. **ELSE IF** *input* is ‘l’ or ‘L’
      1. **IF** used words list is empty
         1. **PRINT** ‘The list is empty’
      2. **ELSE**
         1. **SORT** the used words list
         2. **PRINT** the used words list
   7. **ELSE IF** *input* is less than 3 characters long
      1. **PRINT** ‘The word is less than three characters!’
   8. **ELSE IF** *input* is in the used words list
      1. **PRINT** ‘The input word is already in the user list!’
   9. **ELSE IF NOT validate\_word <***input***,** *letters***>**
      1. **PRINT** ‘Invalid character(s) used!’
   10. **ELSE**
       1. **TRY** retrieve the score of the word from Wordnik
          1. **INCREMENT** score by the word score
          2. **APPEND** word to the used word list
       2. **EXCEPT**
          1. **IF** error\_code is 404
             1. **PRINT** ‘Word not regocnised!’
          2. **ELSE IF** error\_code is 429
             1. **PRINT** ‘Try again soon!’
7. **IF** score is equal or greater than 50
   1. **SAVE** the used word list, letters, and score in the log file

**select\_letters function**

1. **SET** *letter\_weights* to (9, 2, 2, 4, 12, 2, 3, 2, 9, 1, 1, 4, 2, 6, 8, 2, 1, 6, 4, 6, 4, 2, 2, 1, 2, 1)
2. Randomly select nine uppercase characters from English alphabet using *letter\_weight*
3. **RETURN** selected characters as letters

**display\_letters function**

1. **SET** C to 0
2. **FOR** 1 to 3
   1. **FOR** 1 to 3
      1. **PRINT** letter[C]
      2. **IF** C+1 mod 3 is 0
         1. **PRINT** ‘ | ’
   2. **IF C <> 8**
      1. **PRINT** newline
      2. **PRINT** ‘-’ 11 times