RandomWordsFromList()

Development

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Code** | **Comments** | **Changes to be made** |
| **1** |  | Works fine, but needs to be more versatile. Repeating this function three times for each radio button is not viable, as there is no room for validation, such as repeated words. | Implement parameters which will allow for more than one word to be returned.  This means that the function now returns an array, and accepts the number of words to return in the array.  Change name to randomWordsFromList so that it reflects its new function. |
|  |  | Repeated words are still happening, but so far this function successfully passes on an array of three random words. There is still danger of at least of those words being either the correct answer, or another previously determined random word. | Add a while loop, which repeats the code if the random word is either the correct answer or the previously added word to the list.  Add trace functions to ensure that the algorithm was working correctly and as intended. |
|  |  | How did randomWord get placed at the beginning? That’s not right... Apart from that, the function appears to be working. | RandomWord needs to be placed *after* randomWordIndex is set a word. This is why its value does not reflect the randomWordIndex of that iteration. |
|  |  | This works perfectly. However, this is only because a doubly previous word never came up during testing. If it had, there would still be a rare duplicate word, since previousWord only holds the immediately previous word. | Add the previous words into an array, and cycle through them and compare all previous words to the randomWord, so that absolutely none of them are repeated.  Add a function description  Remove the current code determining the previousWord, as this will be replaced by a for loop.  Simplify the while condition, so that it simply repeats while wordInvalid, a Boolean whose value is determined in the for loop & conditional structure. |
|  |  | Duplicate variable definition in the second for loop  wordInvalid, once first determined to be true, does not ever revert back to the false default value. | Change i to j in the second for loop.  Make wordInvalid false at the beginning of the loop, giving it a default value |
|  |  | Proven to be working perfectly by the trace functions, this version removes all chance of a duplicate word being placed in the incorrect answer radio buttons. | - |

setRadioButtons()

Development

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Code** | **Comments** | **Changes to be made** |
| **1** |  | This works, but the words are not randomised. To do so, I will need to use an array of three random words. This means that the randomWordFromWordlist will need to change, and return 3 unique words. | Add validation and randomisation.  Add comments.  Suit the new form of the randomWordsFromWordlist function, including necessary arguments. |
| **2** | v | Only three words are being added to the radioButtons, but it still needs to be determined whether the problem lies within this code, or the code for the newly written getRandomWordFromList. | The error was determined to be in this function. To solve this, the number 3 in the for loop line was changed to a 4. This will mean that the i variable has values from 0 to 3, making four values in total throughout the loop. |
| **3** |  | This works perfectly | - |