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07/07/2021

CSC\_242\_Lab\_09\_QA

**(1**) If the Writer's Block grid was for a children's book or story, explain how the use of a loop in your program could be used to screen and remove words which could be considered more of an adult nature.

**By cross-referencing each word in the words list with a dictionary of “adult” words, a looping function could pop out and exclude words from the sample list.**

**(2)** Would there be a difference in code efficiency if we scramble the words from the CSV file before placing them into the list grid? Explain your response.   
 **It would increase the complexity of the code by one or more orders of magnitude. Since we already use the “random.sampler()” library, scrambling the list of words in CSV would be at least another linear O(n) operation on top of the random sampling function. This would be bad for code efficiency.**

**(3)** Explain how a list implementation of a stack is used in this project's application. Mention the important stack methods with your analysis.

**I used an array implementation of a stack (an ArrayStack class) in this project and used the classes’ initializing method, which pushes the source collection of words onto the stack, and the classes’ “pop” method to pop items out of the stack.**

**(4)** Describe how and why a Web site’s Chat Assistant may use an application such as developed in this project.

**A chat agent could use an application such as this to randomly generate responses to user input.**

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**(5)** In reference to the realm of Data Structures, describe another use for this application.

**I suppose this application could be modified to be a sort of test driver for different data structure classes.**