A Lab on Risk-Based Testing

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Your task is to create a list of risk ideas for a single variable.

You will use the variable in the Assignment on Risk-Based Domain Testing. Therefore, you want a variable that will be appropriate for a domain analysis. You don't have to suggest specific tests now. (You'll do that in the Assignment.)

- 1. Start by picking a variable that is used in Open Office Impress or Writer. Don't choose a binary variable or an enumerated variable (equivalence class analysis won't work well for these.)
- 2. Look for risks associated with this variable:
 - a. What values of this variable might cause a failure when you input the value?
 - b. How does the program use the variable?
 - i. What other functions of the program use this variable?
 - ii. Where does the program display or print values of this variable?
 - iii. Where does the program send values of this variable to?
 - iv. Where does the program store values of this variable?
 - v. Where does the program find values to load into this variable?
 - c. As you consider each use, are there any values of the variable that could cause a failure? For example, consider how the variable might appear in:
 - i. Calculations
 - ii. Constraining the values of other variables
 - iii. Cases in which the values of other variables are supposed to constrain this one
 - iv. Controlling the execution path of the program
 - v. Timed events (maybe something has to happen before this variable is used, or after this variable's value is set)
 - vi. Cases in which the processing of this variable can be paused or interrupted
 - vii. Time-consuming events (maybe this variable controls or impacts tasks that could take too much time)
 - viii. Displays or reports
 - ix. Storage of this variable or of other variables in a way that is influenced by this variable
 - x. Cases in which multiple instances of this program can run in parallel and change storage (in RAM or on disk) in a way that changes this variable or what will be loaded into this variable in the future
 - xi. Messages or communications with other processes or systems
 - xii. Controlling the operation of a device
- 3. List your set of risks in the forum. A list of 20 is good enough.
- 4. Post your list in the forum, then constructively criticize lists of two other students. Please pick a student who doesn't already have several critiques.

REMINDER: THE TASK IS TO COMPILE A SET OF RISKS (potential failures) NOT A LIST OF TESTS OR VALUES TO TEST.