**CSC1300 / Program 4 grade sheet**

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|  | **TOTAL (OUT OF 100)** |

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| **15% compilation (does it compile?)** | |
|  | **TOTAL (15 points)** |
|  | Program Compiles (15 points)  Program Does Not Compile (0 points) |
| **75% execution & SPECIFICATION  (Does it work? WAS PROBLEM SOLVED IN SPECIFIED WAY?)** | |
|  | **TOTAL (no more than 75 points)** |
|  | * **5 points -** Program allows user to run the program as many times as user wishes (runs with loop) |
|  | * **10 points** - Program does not contain any global variables as specified. The main function is defined above all other functions and the function prototypes are correct. Arrays are in pointer notation |
|  | **20 points - Main Function / Algorithm:**   * Variables defined properly * Program contains pointer variables for the arrays & used pointer notation to access array elements * showMenuGetChoice function called * correct files are opened & make sure that they opened correctly before trying to read from them * read in array size from file * called createStringArray function twice – one for each array that needs to be created * read prompts/questions from inputfile into the question array * file is closed * getInfoFromUser function called * printStory function called * arrays are deallocated |
|  | **5 points - showMenuGetChoice() function:**   * Displays menu of options * Gets user’s choice * Validates user’s choice |
|  | **10 points - createStringArray() function**   * Accepts an integer indicating the size of the array to be created, * Dynamically allocates a new string array of this size * Returns a pointer to this array. |
|  | **10 points - getInfoFromUser() function**   * Accepts pointer to string array that holds questions and pointer to string array that holds answers, and the size of the array * Prints out each prompt and allows user to enter in answer into the answer array * Used pointer notation to access elements in array |
|  | **15 points - printStory() function**   * Accepts user’s choice, answer array (as pointer), and array size * Opens correct file based on user’s choice, make sure file exists * Read & print lines from file, inserting user’s answers from answer array in appropriate places * Uses pointer notation to access elements in array * Closed file |
|  | **+5 BONUS POINTS (EXTRA CREDIT!!)**  Student created & added their own MAD LIBS story – by inserting the story in the menu of choices, creating two files for the story. |
| **10% documentation (is code readable & user-friendly?)** | |
|  | **TOTAL (OUT OF 10)** |
|  | Comment block with title, author, date & purpose. Consistent indentions. |
|  | All programmer-defined functions have a comment explaining purpose of function above the function definition. |