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CPT187 – C02

Chapter 7 - Program 8

# **REQUIREMENTS**

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| **Date Submitted:** | 1/29/2023 |
| **Application Title:** | Name Search |
| **Purpose:** | The program will take in a name the user and compare it to lists of popular boys or girls names to determine popularity. |
| **Program Procedures:** | To use the program, first call the program. When prompted, enter a name. Ensure that it does not contain any numbers or special characters. Select a list from the options, ensuring you spell it correctly. |
| **Algorithms, Processing, and Conditions:** | 1. Main() function calls BoyNamesFile() function 2. BoyNamesFile() function sanitizes and compiles names in BoyNames.txt file into a list 3. List is returned to main and stored in variable 4. Main() function calls GirlNamesFile() function 5. GirlNamesFile() function sanitizes and compiles names in GirlNames.txt file into a list 6. List is returned to main and stored in variable 7. Lists are passed to pop\_name\_test() function 8. User enters a name   6a. If name is valid, name is stored in variable  6b. If name is not valid, user is prompted to enter another name.   1. User selects list   7a. If list is valid, list is stored in variable  7b. If list is not valid, user is prompted to enter list again.   1. Name is compared to list contents 2. Program displays popularity results |
| **Notes and Restrictions:** | BoyNames.txt and GirlNames.txt files must be stored in same directory as 7-8.py file. Name may not include numbers or special characters. Users must choose a list from the given options. |
| **Comments:** | This file uses input validation loops to validate and sanitize input prior to performing calculations. The .strip() and .lower() functions are used to sanitize input and data from the file. |

# **USE CASE**

1. User starts the program.
2. User is prompted to enter a name.
3. User enters if name should be compared to the boys’ names, girls’ names, or both.
4. Program will display if the name is popular or not.