**REQUIREMENTS:**

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| **ID** | **DESCRIPTION** |
| H\_01 | Develop an application to test generic C programming questions. |
| H\_02 | The application should be a multi-file code. |
| H\_03 | The code should be cppcheck complaint. |
| H\_04 | Code quality should be maintained and no unused variable left. |
| H\_05 | Raise and resolve issues on github. |
| H\_01\_L\_01 | The programs chosen for the same ‘sum of numbers in array’, ‘binary to decimal’, ‘armstrong number’, ‘magic number’, ‘neon number’, ‘perfect number’, ‘prime number’, ‘decimal to binary’, ‘largest number in array’, ‘missing number in array’, ‘smallest number in array’ |
| H\_02\_L\_01 | All the functions are stored under ‘src’ and user defined header files are stored under ‘inc’ directory. |
| H\_02\_L\_02 | Make is used to link and compile everything. |
| H\_03\_L\_01 | cppcheck.yml was configured as a workflow |
| H\_04\_L\_01 | Codeacy code quality check was also configured as a workflow |
| H\_04\_L\_02 | Unity throw the switch was used for unit testing |
| H\_05\_L\_03 | TEST\_ASSERT\_EQUAL\_MESSAGE was used to test the accuracy of the code. |