

HW01 [50 pts]

a. Write a program that uses a random number generator to generate a three digit integer that allows the user to perform the following operations:

1. Sum the digits
2. Triple the number
3. Reverse the digits

b. Use an enum, typedef, and string variable

c. Store 10 random numbers in an array

d. Sort the array

e. Write the array to an external file

f. Call a function to read the external file

g. Print the array in a function

Use the command script to capture your interaction compiling and running the program, including all operations, as shown below:

CS1C Summer 2019 MTWTH HW01 50pts Due: Th 6/13/2019

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ script hw01.scr
```

```
Script started, file is hw01.scr
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ date
```

```
...
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ ls -l
```

```
...
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ make all
```

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...

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ ls -l
```

...

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ ./hw01
```

... // print out parts a, d & g above

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ exit
```

Script done, file is hw01.scr

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/01 $ make tar
```

...

Submit the tar package file hw01.tar by Thursday June 13, 2019.