

HW13 - Exceptions [50 pts]

Using HW12:

1. Test the assert macro (both pass and fail); print a corresponding output statement.
2. Add exceptions to the queue template.
 - a. Throw an exception if the capacity is exceeded. Print an appropriate error message in the associated exception handler.
 - b. Throw an exception if your program tries to remove from an empty queue. Print an appropriate error message in the associated exception handler.
 - c. Test both exceptions

Following an exception, the program should allow one to recover from a mistake without corrupting the contents of the queue.

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

CS1C Summer 2019 MTWTH HW13 50pts Due: Th 7/18/2019

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ script hw13.scr
```

```
Script started, file is hw13.scr
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ date
```

```
...
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ ls -l
```

```
...
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ make all
```

```
...
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ ls -l
```

```
...
```

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ ./hw13
```

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... // print output from steps 1 and 2 above

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ exit
```

Script done, file is hw13.scr

```
cs1c@cs1c-VirtualBox ~/cs1c/hw/13 $ make tar
```

...

Submit the tar package file hw13.tar to canvas by Thursday July 18, 2019.