

CPE 353 Practice Problem 0012_QueueManager

Executable Sample Solution

The goal is to develop your application such that its appearance and behavior *exactly* matches that of the sample solution. To execute the sample solution, log into **blackhawk.ece.uah.edu**, redirecting the X11 display to your current machine – see the relevant Remote Access Guide on the course web page for assistance with this. Then in a terminal window, type the following command to execute the sample solution for this problem

```
/home/work/cpe353/problems/p0012
```

Project Objectives

- Additional practice locating help pages within **Qt Assistant** and practice understanding the contents of those help pages
- Practice using C++ statements with your Qt program to create and display pop-up dialogs
- Practice using Qt container classes

Project Specifications

Use the **qtcreator** integrated development environment to implement a dialog that will allow you to perform the following standard queue operations with integers only – **Enqueue**, **Dequeue**, **Front**, **Rear**, **Size**, **Clear**.

The desired behavior for each operation is defined by the sample solution. Controls on the form also permit viewing of the queue contents and quitting the application.

The widget displayed must be of type **Dialog** (a customized **Dialog** class that inherits from **QDialog**).

Be sure to match the look and functionality of the sample solution running on **blackhawk**.