

Quiz #4 Answers

1. Describe the operations on a priority queue.

A priority queue has the same basic three operations that a normal queue does: one to add, one to remove, and one to peak. The difference is that the remove and peak don't get the thing that has been there the longest, but instead the highest priority thing that has been there the longest. Priority outweighs having been on the queue.

2. Write code to put 4 buttons in a panel in a single column.

```
Jpanel panel=new Jpanel(new GridLayout(4,1));  
panel.add(new JButton("Button1"));  
panel.add(new JButton("Button2"));  
panel.add(new JButton("Button3"));  
panel.add(new JButton("Button4"));
```

This code wouldn't really be useful for anything because the buttons aren't listening for any events, but it will put 4 of them in a single column in a panel.

Extra Credit: What is the syntax for throwing an exception? (You can write a line of code to throw an exception for this.)

```
throw new Exception("Something went wrong");
```