Lab 06 - Interrupt Processing Setup

Direction: Submit typed work on github.

For this lab, your objective is to complete each of the following tasks. You cannot use any STL libraries.

- □ Define a generic **PriorityQueue** class that has the methods:
 - \circ Enqueue(v,p) adds an item v to the queue based off its priority p.
 - $\circ~$ Dequeue() removes front item from the queue.
 - Peek() returns but does not remove the front item of the queue.
 - o IsEmpty() states if the queue is empty.

The priorities should be integers between 0 and 9. If an invalid priority is given to the Enqueue() method, the item should not be added to the queue.

- □ Define a generic **Stack** class that has the methods:
 - Push() adds an item to the stack.
 - Pop() removes the top item from the stack.
 - Top() returns but does not remove the top item of the stack.
 - o IsEmpty() states if the stack is empty.