**ITEC 136 Homework 10 Name: \_\_Danielle Hooven\_\_\_\_\_\_**

1. **[10 points]** Implement a stack data structure in Python. Test your code with boundary cases, like trying to remove an element from an already empty stack. If removing or peek an item from an empty stack, return **None** instead of throwing an exception.

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| **class** Stack:  **def** \_\_init\_\_(self):  #comment  #code   **def** isEmpty(self):  #comment  #code   **def** push(self, item):  #comment  #code   **def** pop(self):  #comment  #code   **def** peek(self):  #comment  #code   **def** size(self):  #comment  #code |

1. **[10 points]** Implement a queue data structure in Python. Test your code with boundary cases, like trying to remove an element from an already empty queue. If removing an item from an empty queue, return **None** instead of throwing an exception.

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| **class** Queue:  **def** \_\_init\_\_(self):  #comment  #code   **def** isEmpty(self):  #comment  #code   **def** enqueue(self, item):  #comment  #code   **def** dequeue(self):  #comment  #code   **def** size(self):  #comment  #code |

1. **[5 points]** Weekly Learning and Reflection  
   In two to three paragraphs of prose (i.e. sentences, not bullet lists) using APA style citations if needed, summarize and interact with the content that was covered in the introductory videos provided for this course. In your summary, you should highlight the major topics, theories, practices, and knowledge that were covered. Your summary should also interact with the material through personal observations, reflections, and applications to the field of study. In particular, highlight what surprised, enlightened, or otherwise engaged you. Make sure to include at least one thing that you’re still confused about. In other words, you should think and write critically not just about what was presented but also what you have learned through the session. Feel free to ask questions in this as well since it will be returned to you with answers.