**ITEC 136 Homework 9 Name: \_Danielle Hooven\_\_\_\_\_\_\_**

1. **[10 points]** Given a list of numbers in random order, write an algorithm that works in ***O*(*n2*)** to sort the list. **Do not use the list sort method or sorted function**.
2. **[10 points]** Provide different code snippets for each of the following complexities.   
     
   ***O*(*n2*)  
   *O*(*n*)  
   *O*(1)  
   *O*( *nlog(n)* )  
   *O*( *log(n)* )**
3. **[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.