**Compare Contrast Group**

1. **Explain the big O notation (clearly show how the notation looks like with some examples.**
   1. **Bubble sort**
   2. Improved bubble sort
   3. Selection
   4. Merge
   5. Quick
2. Time Complexity
3. Space Complexity
4. Provide some of the attributes of a sorting method and provide some examples of sorting methods that have them:
   1. Adaptable:
   2. Recursion:
   3. Stable vs unstable
   4. Good for:
      1. nearly sorted lists
      2. Small lists
      3. Very large lists
      4. Completely random lists
      5. Web based input and dynamically sort as data is being entered
   5. Easy vs hard to understand and implement