

The process of completing assignments 1 and 2 gave me valuable insights into problem-solving techniques and helped me develop a deeper understanding of algorithm design. Throughout these assignments, I practiced defining both time and space complexity for different solutions. This allowed me to analyze how well the solutions performed in terms of resource usage and identify opportunities for optimization. I paid close attention to reducing time and space complexities wherever possible, which is a crucial skill in real-world applications where performance is key.

An important part of this process was collaborating with my partner. Reviewing each other's solutions helped me see problems from different perspectives, critique the efficiency of various methods, consider both the theoretical aspects and practical implications. This exchange of ideas and work reinforced my understanding of time and space complexity with different methods.

In addition to the technical work, I realized how important it is to document my process thoroughly. Writing detailed explanations for each step in the solution not only helped me clarify my own thinking, but also made it easier for me to understand my partner's thought process. This experience highlighted the importance of clear comments in collaborative work.