

## **Algorithms and Data Structures - Assignment 2 - markmaramag**

### **Reflection**

Working through the "Missing Number in Range" problem has been both challenging and rewarding. The process involved understanding the problem requirements, devising a solution, and ensuring its correctness through thorough testing. The task required careful attention to edge cases, such as handling an empty list or ensuring the output format met the requirements. Exploring time and space complexity helped solidify my understanding of how the solution scales with larger inputs. It was satisfying to create a robust, efficient solution while adhering to the problem's constraints.

One valuable aspect was exploring alternative approaches. This deepened my understanding of problem-solving and showed the trade-offs between simplicity and efficiency. It was a rewarding process to develop a working solution while balancing clarity and performance.

Reviewing my partner's work was an enlightening experience. It gave me the opportunity to see how someone else approached the problem, offering a different perspective on coding style and logic. By analyzing their solution, I could identify strengths, such as their focus on efficiency and edge case handling, and suggest improvements, like enhancing clarity or refining the logic for specific scenarios.

Overall, this experience deepened my understanding of the problem and strengthened my ability to analyze, optimize, and present solutions effectively.