Problem 1

Solution:

• Subproblem Definition

• Recursive Formulation

= \begin{cases} \end{cases}
• Pseudocode

• Time and Space Complexity analysis
• Proof of Correctness

• Collaboration (if any):
Problem 2

Solution:

• Subproblem Definition

• Recursive Formulation
• Pseudocode

• Time and Space Complexity analysis
• Proof of Correctness

• Collaboration (if any):
Problem 3

Solution:

- Subproblem Definition

- Recursive Formulation
• Pseudocode

• Time and Space Complexity analysis
• Proof of Correctness

• Collaboration (if any):
Problem 4

Solution:

- Subproblem Definition

- Recursive Formulation

\[ \begin{align*}
\end{align*} \]
• Pseudocode

• Time and Space Complexity analysis
• Proof of Correctness

• Collaboration (if any):
Problem 5

Solution:
- Subproblem Definition

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= \left\{
\right.
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- Recursive Formulation
- Pseudocode

- Time and Space Complexity analysis
• Proof of Correctness

• Collaboration (if any):