**Problem1:**

Text

Description automatically generated

**Problem2**:

1. Branch & bound one-D array:

Text

Description automatically generated

1. Branch & bound Two-D array:

Text

Description automatically generated

1. Dynamic Programming one-D array:

Text

Description automatically generated

1. Dynamic Programming two-D array:

Text

Description automatically generated

**Problem3:**

Text

Description automatically generated

PS:

Problem 1 and problem 3 were ran by win11, intel i5 processor, ASUS, problem 2 was ran by M1 Max processor, Apple.