

## PSET # 2

### Challenge 1: The Mountain Peak Challenge

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge1_The_Mountain_Peak_Challenge.py
Enter the total number of steps to reach the top → : 8
The total number of unique ways to reach the summit ▲ : 34

Execution time: 4.73000000056345e-05 seconds
Current memory usage: 0.00 KB
Peak memory usage: 0.08 KB

Process finished with exit code 0
```

### Challenge 2: The Balanced Scales Challenge

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge2_The_Balanced_Scales_Challenge.py
Total Sum of Array:[1, 5, 11, 5] = 22 ,Result: True

Total sum of Array:[1, 3, 5] = 9 ,Result: False

Process finished with exit code 0
```

### Challenge 3: The Mirror Quest: Finding the Longest Reflection

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge3_The_Mirror_Quest_Finding_the_Longest_Reflection.py
Enter the Input String : GEEK
The length of the longest palindromic subsequence : 2

Process finished with exit code 0

C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge3_The_Mirror_Quest_Finding_the_Longest_Reflection.py
Enter the Input String : ABCD
The length of the longest palindromic subsequence : 1

Process finished with exit code 0
```

## Challenge 4: 💰 The Royal Treasury

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge4_The_Royal_Treasury.py
Case A: Small Change
Target Sum: 4
Vault Coins: [1, 2, 3]
Total ways: 4

Case B: Specific Denominations
Target Sum: 10
Vault Coins: [2, 5, 3, 6]
Total ways: 5

Case C: The Impossible Payment
Target Sum: 5
Vault Coins: [4]
Total ways: 0

Process finished with exit code 0
```

## Challenge 5: 📅 The Master Scheduler's Dilemma

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe "C:\Users\TLS\PycharmProjects\logic_force\Challenge5_The_Master_Scheduler's_Dilemma.py"
Example 1: The Tight Schedule
Requests: [[1, 2], [2, 3], [3, 4], [1, 3]]
Result: 1 removals

Example 2: The Triple Booking
Requests: [[1, 3], [1, 3], [1, 3]]
Result: 2 removals

Example 3: The Social Distancer
Requests: [[1, 2], [5, 10], [18, 35]]
Result: 0 removals

Process finished with exit code 0
```

## Challenge 6: 📦 The High-Stakes Freelancer

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge6_the_High_Stakes_Freelancer.py
Example 1: The First Hour Rush
Deadlines: [4, 1, 1, 1]
Profit: [20, 10, 40, 30]
Output: [2, 60]

Example 2: Overlapping Deadlines
Deadlines: [2, 1, 2, 1, 1]
Profit: [100, 19, 27, 25, 15]
Output: [2, 127]

Process finished with exit code 0
```

## Challenge 7: 🍌 Koko's Banana Buffet

```
C:\Users\TLS\PycharmProjects\logic_force\.venv\Scripts\python.exe C:\Users\TLS\PycharmProjects\logic_force\Challenge7_Koko's_Banana_Buffet.py
Example 1: The Tight Deadline
Piles: [5, 10, 3]
Time limit (k): 4
Result: 5 bananas/hr

Example 2: The Giant Feast
Piles: [5, 10, 15, 20]
Time limit (k): 7
Result: 10 bananas/hr

Process finished with exit code 0
```