

Logic Forge Week 2

Coding Challenges

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Challenge 01: The Mountain Peak Challenge

Output

```
PS C:\Users\misba\OneDrive\Desktop\Winter_Coding_Activity> & "C:/Program
Files/Python312/python.exe" "c:/Users/misba/OneDrive/Desktop/Winter_Coding_Activity/chall

Test 1 - Basic balanced case:
True

Test 2 - Simple two elements:
True
True

Test 3 - Odd total sum:
False

Test 4 - Single element:
False

Test 5 - Empty array:
True
```

Challenge 02: The Balanced Scales Challenge

Output

```
PS C:\Users\misba\OneDrive\Desktop\Winter_Coding_Activity> & "C:/Program
Files/Python312/python.exe" "c:/Users/misba/OneDrive/Desktop/Winter_Coding_Activity/chall

Test 1 - Simple palindromes:
3
7

Test 2 - Even length palindromes:
4
4

Test 3 - Single character:
1

Test 4 - Two characters:
2
1
```

Challenge 03: The Mirror Quest: Finding the Longest Reflection

Output

```
PS C:\Users\misba\OneDrive\Desktop\Winter_Coding_Activity> & "C:/Program
Files/Python312/python.exe" "c:/Users/misba/OneDrive/Desktop/Winter_Coding_Activity/chall

Test 1 - Basic coin change:
4

Test 2 - Single coin:
1
1
0

Test 3 - Target is 0:
1
1

Test 4 - Empty coins array:
0
0
```

Challenge 04: The Royal Treasury

Output

```
PS C:\Users\misba\OneDrive\Desktop\Winter_Coding_Activity> & "C:/Program
Files/Python312/python.exe" "c:/Users/misba/OneDrive/Desktop/Winter_Coding_Activity/chall

Test 1 - No overlaps:
0

Test 2 - Complete overlap:
1

Test 3 - Two intervals overlapping:
1

Test 4 - Empty list:
0

Test 5 - Single interval:
0
```

Challenge 05: The Master Scheduler's Dilemma

Output

```
PS C:\Users\misba\OneDrive\Desktop\Winter_Coding_Activity> & "C:/Program  
Files/Python312/python.exe" "c:/Users/misba/OneDrive/Desktop/Winter_Coding_Activity/chall
```

```
Test 1 - Basic example:
```

```
[3, 142]
```

```
Test 2 - No conflicts:
```

```
[3, 180]
```

```
Test 3 - All same deadline:
```

```
[1, 40]
```

```
Test 4 - Single job:
```

```
[1, 100]
```

```
Test 5 - Two jobs, same deadline:
```

```
[2, 150]
```

Challenge 06: The High-Stakes Freelancer

Output

```
PS C:\Users\misba\OneDrive\Desktop\Winter_Coding_Activity> & "C:/Program  
Files/Python312/python.exe" "c:/Users/misba/OneDrive/Desktop/Winter_Coding_Activity/chall
```

[Add your output snippets here]