

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  
enge_01.py"  
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  
enge_02.py"  
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  
enge03.py"  
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  
enge_04.py"  
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]
```