

LOGIC FORGE

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CHALLENGE (1) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge1_product_array.py"
• 1,2,3,4
  [24, 12, 8, 6]
• PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge1_product_array.py"
  -1,1,0,-3,3
  [0, 0, 9, 0, 0]
○ PS C:\CIS Winter activity\week1> █
```

CHALLENGE (2) OUTPUTs:

```
• PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge2_password_recovery_window.py"
log: ADOBE CODEBANC
pattern: ABC
Output: BANC
• PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge2_password_recovery_window.py"
log: a
pattern: a
Output: a
• PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge2_password_recovery_window.py"
log: a
pattern: aa
Output:
○ PS C:\CIS Winter activity\week1> █
```

CHALLENGE (3) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge3_balanced_performance_score.py"
• Input:
  1,3
  2
  Output: 2.0
• PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge3_balanced_performance_score.py"
Input:
  1,2
  3,4
  Output: 2.5
○ PS C:\CIS Winter activity\week1> █
```

CHALLENGE (4) OUTPUTs:

```

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge4_The_Deep_Storage_Inventory_Search.py"
• size n x n: 3
  matrix:
  1,5,9
  10,11,13
  12,13,15
  k: 8
Output: 13
○ PS C:\CIS Winter activity\week1>

```

CHALLENGE (5) OUTPUTs:

```

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge5_fix_the_broken_expression.py"
• Input: ()())
Output: ['()()()', '()()()']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge5_fix_the_broken_expression.py"
• Input: (a)())()
Output: ['(a)()()', '(a)()()']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge5_fix_the_broken_expression.py"
• Input: ()
Output: ['()']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge5_fix_the_broken_expression.py"
• Input: abc
Output: ['abc']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge5_fix_the_broken_expression.py"
• Input: (((
Output: ['']

○ PS C:\CIS Winter activity\week1>

```

CHALLENGE (6) OUTPUTs:

```

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge6_tower_of_hanoi_algo.py"
• Enter the number of disks: 3
Disk 1 moved from A to C
Disk 2 moved from A to B
Disk 1 moved from C to B
Disk 3 moved from A to C
Disk 1 moved from B to A
Disk 2 moved from B to C
Disk 1 moved from A to C
○ PS C:\CIS Winter activity\week1>

```