

“Week 1”

Challenge 1: *Team Contribution Multiplier*

```
"F:\project 2.0\venv\Scripts\python.exe" "D:\PythonProject\Winter Activity 2025\Challenge_1__Team_Contribution_Multiplier.py"
Input: contributions = [1, 2, 3, 4]
Output: impact = [24, 12, 8, 6]

Input: contributions = [-1, 1, 0, -3, 3]
Output: impact = [0, 0, 9, 0, 0]

Process finished with exit code 0
```

Challenge 4: *The Deep Storage Inventory Search*

```
"F:\project 2.0\venv\Scripts\python.exe" "D:\PythonProject\Winter Activity 2025\Challenge_4__The_Deep_Storage_Inventory_Search.py"
matrix = [[1, 5, 9],
          [10, 11, 13],
          [12, 13, 15]]
k = 8
Output = 13

matrix = [[1, 5, 9],
          [10, 11, 13],
          [12, 13, 15]]
k = 6
Output = 12

Process finished with exit code 0
```

Challenge 5: *Fix the Broken Expression*

```
"F:\project 2.0\venv\Scripts\python.exe" "D:\PythonProject\Winter Activity 2025\Challenge_5__Fix_the_Broken_Expression.py"
Input: "()()()"
Output: ['()()()', '()()()']

Input: "(a())()"
Output: ['(a())()', '(a())()']

Input: ")"
Output: []

Input: "abc"
Output: ['abc']

Input: "(((("
Output: []

Process finished with exit code 0
```

Challenge 6: *Tower of Hanoi Algorithm*

```
"F:\project 2.0\.venv\Scripts\python.exe" "D:\PythonProject\Winter Activity 2025\Challenge_6__Tower_of_Hanoi_Algorithm.py"  
Input : 2  
Output:  
Disk 1 moved from A to B  
Disk 2 moved from A to C  
Disk 1 moved from B to C  
  
Process finished with exit code 0
```

```
"F:\project 2.0\.venv\Scripts\python.exe" "D:\PythonProject\Winter Activity 2025\Challenge_6__Tower_of_Hanoi_Algorithm.py"  
Input : 3  
Output:  
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  
  
Process finished with exit code 0
```

```
"F:\project 2.0\.venv\Scripts\python.exe" "D:\PythonProject\Winter Activity 2025\Challenge_6__Tower_of_Hanoi_Algorithm.py"  
Input : 4  
Output:  
Disk 1 moved from A to B  
Disk 2 moved from A to C  
Disk 1 moved from B to C  
Disk 3 moved from A to B  
Disk 1 moved from C to A  
Disk 2 moved from C to B  
Disk 1 moved from A to B  
Disk 4 moved from A to C  
Disk 1 moved from B to C  
Disk 2 moved from B to A  
Disk 1 moved from C to A  
Disk 3 moved from B to C  
Disk 1 moved from A to B  
Disk 2 moved from A to C  
Disk 1 moved from B to C  
  
Process finished with exit code 0
```