OUTPUT FILE

Challenge : 01 (Challenge 1: Team Contribution Multiplier)

Example 1

```
PS C:\Users\Syscom\Desktop\DSA-Logic-Forge> & C:\
Contributions : [1, 2, 3, 4]
Brute Force Approach : [24, 12, 8, 6]
Average Approach : [24, 12, 8, 6]
Optimal Approach : [24, 12, 8, 6]
PS C:\Users\Syscom\Desktop\DSA-Logic-Forge>
```

Example 2

```
PS C:\Users\Syscom\Desktop\DSA-Logic-Fo
Contributions : [-1, 1, 0, -3, 3]
Brute Force Approach : [0, 0, 9, 0, 0]
Average Approach : [0, 0, 9, 0, 0]
Optimal Approach : [0, 0, 9, 0, 0]
PS C:\Users\Syscom\Desktop\DSA-Logic-Fo
```

Challenge 2: Password Recovery Window

Example 1

```
2.py"
Input:  log = 'ADOBECODEBANC', pattern = 'ABC'
Brute Force : BANC
Optimal : BANC
```

Example 2

```
2.py"
Input:  log = 'a', pattern = 'a'
Brute Force : a
Optimal : a
```

Example 3

```
Input:  log = 'a', pattern = 'aa'
Brute Force :
Optimal :
```

OUTPUT FILE

Challenge 3: Balanced Performance Score

Example 1

```
Input:  scoresA = [1, 2], scoresB = [3, 4]
Median : 2.5
```

Example 2

```
3.py"
Input:  scoresA = [1, 3], scoresB = [2]
Median : 2
```

Challenge 4 : The Deep Storage Inventory Search

Example 1

```
4.py"
Input: matrix = [[1, 5, 9], [10, 11, 13], [12, 13, 15]], k = 8
Kth smallest Element Using Brute Force : 13
Kth smallest Element Using Heap : 13
Kth smallest Element Using Binary Search (Optimal) : 13
```

Challenge 5: Fix the Broken Expression

Example 1

```
5.py"
Input : ()())()  , Output : ['()()()', '(())()']
Input : (a)())() , Output : ['(a())()', '(a)()()']
Input : )(       , Output : ['']
Input : ()       , Output : ['()']
Input : abc      , Output : ['abc']
Input : (((      , Output : []
```

OUTPUT FILE

Challenge 6: Tower of Hanoi Algorithm

Example 1

```
Input : N = 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
```

Example 2

```
6.py"
Input : N = 4
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
PS C:\Users\Syscom\Desktop\DSA-Logic-Forge>
```