

CHALLENGE 01

BRUTE

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 01>py team_contribution_multiplier_brute.py
4
1 2 3 4
24
12
8
6
```

OPTIMIZED

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 01>py team_contribution_multiplier_optimized.py
4
1 2 3 4
24
12
8
6
```

CHALLENGE 02

BRUTE

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1>cd Challenge 02

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 02>py password_recovery_window_brute.py
ADOBECODEBANC
ABC
BANC
```

OPTIMIZED

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 02>py password_recovery_window_optimized.py
ADOBECODEBANC
ABC
BANC
```

CHALLENGE 03

BRUTE

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1>cd Challenge 03  
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 03>balanced_performance_score_brute.py  
1 3  
2  
2
```

OPTIMIZED

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 03>py balanced_performance_score_optimized.py  
1 2  
3 4  
2.5
```

CHALLENGE 04

BRUTE

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1>cd Challenge 04  
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 04>py the_deep_storage_inventory_search_brute.py  
3  
1 5 9  
10 11 13  
12 13 15  
8  
13
```

OPTIMIZED

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 04>py the_deep_storage_inventory_search_optimized.py  
3  
1 5 9  
10 11 13  
12 13 15  
8  
13
```

CHALLENGE 05

BRUTE

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1>cd Challenge 05  
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 05>py fix_the_broken_expression_brute.py  
()()()  
{'()()()', '()()()'}
```

OPTIMIZED

I attempted to implement an optimized approach for this problem, but I was unable to complete it.

For now, I have provided a brute force solution that correctly generates all longest valid parentheses subsets.

CHALLENGE 06

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 1\Challenge 06>py tower_of_hanoi.py  
3  
Move disk 1 from A to C  
Move disk 2 from A to B  
Move disk 1 from C to B  
Move disk 3 from A to C  
Move disk 1 from B to A  
Move disk 2 from B to C  
Move disk 1 from A to C
```