

# CHALLENGE: 01

## Brute:

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_brute.py"
1
1

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_brute.py"
2
2

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_brute.py"
3
3

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_brute.py"
4
5

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>|
```

## Optimized:

```
Microsoft Windows [Version 10.0.19045.6466]
(c) Microsoft Corporation. All rights reserved.

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_optimized.py"
1
1

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_optimized.py"
2
2

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_optimized.py"
3
3

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 01/the_mountain_peak_optimized.py"
4
5

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>|
```

## CHALLENGE: 02

### Brute:

```
Microsoft Windows [Version 10.0.19045.6466]
(c) Microsoft Corporation. All rights reserved.

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 02/the_balanced_scales_brute.py"
1 5 11 5
True

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 02/the_balanced_scales_brute.py"
1 3 5
False

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>
```

### Optimized:

```
Microsoft Windows [Version 10.0.19045.6466]
(c) Microsoft Corporation. All rights reserved.

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 02/the_balanced_scales_optimized.py"
1 5 11 5
True

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 02/the_balanced_scales_optimized.py"
1 3 5
False

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>
```

## CHALLENGE: 03

### Brute:

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 03/the_mirror_quest_brute.py"
geeks
2

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 03/the_mirror_quest_brute.py"
madam
5

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/
27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 03/the_mirror_quest_brute.py"
a
1

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>
```

## Optimized:

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 03\the_mirror_quest_optimized.py"
madam
5

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 03\the_mirror_quest_optimized.py"
geeks
2

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 03\the_mirror_quest_optimized.py"
a
1

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>|
```

## CHALLENGE: 04

### Brute:

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 04\the_royal_treasury_brute.py"
1 2 3
4
4

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 04\the_royal_treasury_brute.py"
2 5 3 6
10
5

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 04\the_royal_treasury_brute.py"
4
5
0

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>|
```

## Optimized:

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 04\the_royal_treasury_optimized.py"
1 2 3
4
4

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 04\the_royal_treasury_optimized.py"
2 5 3 6
10
5

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2\Challenge 04\the_royal_treasury_optimized.py"
4
5
0

E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>|
```

## CHALLENGE: 05

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 05/the_master_scheduler's_dilemma.py"
4
1 2
2 3
3 4
1 3
1
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 05/the_master_scheduler's_dilemma.py"
3
1 3
1 3
1 3
2
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>
```

*Since my solution is greedy so I'm unable to find brute solution separately.*

## CHALLENGE: 06

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 06/the_high-stakes_freelancer.py"
4 1 1 1
20 10 40 30
[2, 60]
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 06/the_high-stakes_freelancer.py"
2 1 2 1 1
100 19 27 25 15
[2, 127]
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>
```

*Since my solution is greedy so I'm unable to find brute solution separately.*

## CHALLENGE: 07

```
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 07/koko's_banana_buffet.py"
5 10 3
4
5
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>C:/Users/Uzzam/AppData/Local/Programs/Python/Python313/python.exe "e:/27-04-2025/UZZAM WORK/Logic Forge PSETS/Logic-Forge-Problem-Sets/Logic Forge - Week 2/Challenge 07/koko's_banana_buffet.py"
5 10 15 20
7
10
E:\27-04-2025\UZZAM WORK\Logic Forge PSETS\Logic-Forge-Problem-Sets\Logic Forge - Week 2>
```

*Since my solution is greedy so I'm unable to find brute solution separately.*