

OUTPUT:01

```
13 def count_climbing_ways(n):
14     if n == 1:
15         return 1
16     if n == 2:
17         return 2
18
19     prev2 = 1
20     prev1 = 2
21
22     for i in range(3, n + 1):
23         current = prev1 + prev2
24         prev2 = prev1
25         prev1 = current
26
27     return prev1
28 print("Total unique ways",count_climbing_ways(2))
29 print("Total unique ways",count_climbing_ways(3))
30 print("Total unique ways",count_climbing_ways(4))
31 print("Total unique ways",count_climbing_ways(5))
32 print("Total unique ways",count_climbing_ways(45))
33
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

[Running] python -u "d:\Faraniya\logic_forge\challenge_1_mountain_peak.py"

Total unique ways 2

Total unique ways 3

Total unique ways 5

Total unique ways 8

Total unique ways 1836311903

[Done] exited with code=0 in 0.161 seconds

OUTPUT:02

```
20 def can_balance_scales(arr):
21     total = sum(arr)
22
23     if total % 2 != 0:
24         return False
25
26     target = total // 2
27     dp = [False] * (target + 1)
28     dp[0] = True
29
30     for weight in arr:
31         for s in range(target, weight - 1, -1):
32             dp[s] = dp[s] or dp[s - weight]
33
34     return dp[target]
35 print(can_balance_scales([1, 5, 11, 5]))
36 print(can_balance_scales([1, 3, 5]))
37
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

[Running] python -u "d:\Faraniya\logic_forge\challenge_2_balance_scale.py"

True

False

[Done] exited with code=0 in 0.097 seconds

OUTPUT:03

```
challenge_3_mirror_quest.py > ...
1  def find_longest_mirror_length(s):
2      def lps_recursive(start, end):
3          if start > end:
4              return 0
5          if start == end:
6              return 1
7          if s[start] == s[end]:
8              return 2 + lps_recursive(start + 1, end - 1)
9          else:
10             return max(lps_recursive(start + 1, end), lps_recursive(start, end - 1))
11
12     return lps_recursive(0, len(s) - 1)
13
14 print(find_longest_mirror_length("bbabcbcab"))
15 print(find_longest_mirror_length("GEEKS"))
16 print(find_longest_mirror_length("MAPAM"))
17 print(find_longest_mirror_length("ABCD"))
18

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

[Running] python -u "d:\Faraniya\logic_forge\challenge_3_mirror_quest.py"
7
2
5
1

[Done] exited with code=0 in 0.123 seconds
```

OUTPUT:04

```
challenge_4_royal_treasury.py > ...
1  def count_payment_combinations(coins, total_sum):
2      ways = [0] * (total_sum + 1)
3      ways[0] = 1
4
5      for coin in coins:
6          for amount in range(coin, total_sum + 1):
7              ways[amount] += ways[amount - coin]
8
9      return ways[total_sum]
10 print(count_payment_combinations([1,2,3], 4))
11 print(count_payment_combinations([2,5,3,6], 10))
12 print(count_payment_combinations([4], 5))

PROBLEMS  OUTPUT  DEBUG CONSOLE  ...  Filter  Code

[Running] python -u "d:\Faraniya\logic_forge\challenge_4_royal_treasury.py"
4
5
0

[Done] exited with code=0 in 0.477 seconds
```

OUTPUT:05

```
15 def min_cancelled_bookings(intervals):
16     if not intervals:
17         return 0
18
19     def end_time(x):
20         return x[1]
21
22     intervals.sort(key=end_time) # sort by end time
23     end = intervals[0][1]
24     remove = 0
25
26     for i in range(1, len(intervals)):
27         if intervals[i][0] < end:
28             remove += 1
29         else:
30             end = intervals[i][1]
31
32     return remove
33
34 print(min_cancelled_bookings([[1,2],[2,3],[3,4],[1,3]]))
35 print(min_cancelled_bookings([[1,3],[1,3],[1,3]]))
36 print(min_cancelled_bookings([[1,2],[5,10],[18,35]]))
37
```

PROBLEMS OUTPUT DEBUG CONSOLE ...

Filter

Code

[Running] python -u "d:\Faraniya\logic_forge\challenge_5_master_scheduler.py"

1

2

0

[Done] exited with code=0 in 0.2 seconds

OUTPUT:06

```
24 def maximize_freelance_profit(deadlines, profits):
25     n = len(deadlines)
26     jobs = list(zip(profits, deadlines))
27     jobs.sort(reverse=True)
28
29     max_deadline = max(deadlines)
30     slots = [0] * (max_deadline + 1)
31
32     total_jobs = 0
33     total_profit = 0
34
35     for profit, deadline in jobs:
36         for hour in range(deadline, 0, -1):
37             if slots[hour] == 0:
38                 slots[hour] = 1
39                 total_jobs += 1
40                 total_profit += profit
41                 break
42
43     return [total_jobs, total_profit]
44 print(maximize_freelance_profit([4, 1, 1, 1], [20, 10, 40, 30]))
45 print(maximize_freelance_profit([2, 1, 2, 1, 1], [100, 19, 27, 25, 15]))
46
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

...

Filter

Code

[Running] python -u "d:\Faraniya\logic_forge\challenge_6_high_stakes.py"

[2, 60]

[2, 127]

[Done] exited with code=0 in 0.266 seconds

OUTPUT:07

```
26 def calculate_minimum_speed(piles, k):
27     low, high = 1, max(piles)
28     result = high
29
30     while low <= high:
31         mid = (low + high) // 2
32         hours_needed = 0
33
34         for pile in piles:
35             hours_needed += (pile + mid - 1) // mid
36
37         if hours_needed <= k:
38             result = mid
39             high = mid - 1
40         else:
41             low = mid + 1
42
43     return result
44
45 print(calculate_minimum_speed([5, 10, 3], 4))
46 print(calculate_minimum_speed([5, 10, 15, 20], 7))
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

...

Filter

Code

[Running] python -u "d:\Faraniya\logic_forge\challenge_7_eating_speed.py"

5

10

[Done] exited with code=0 in 0.13 seconds