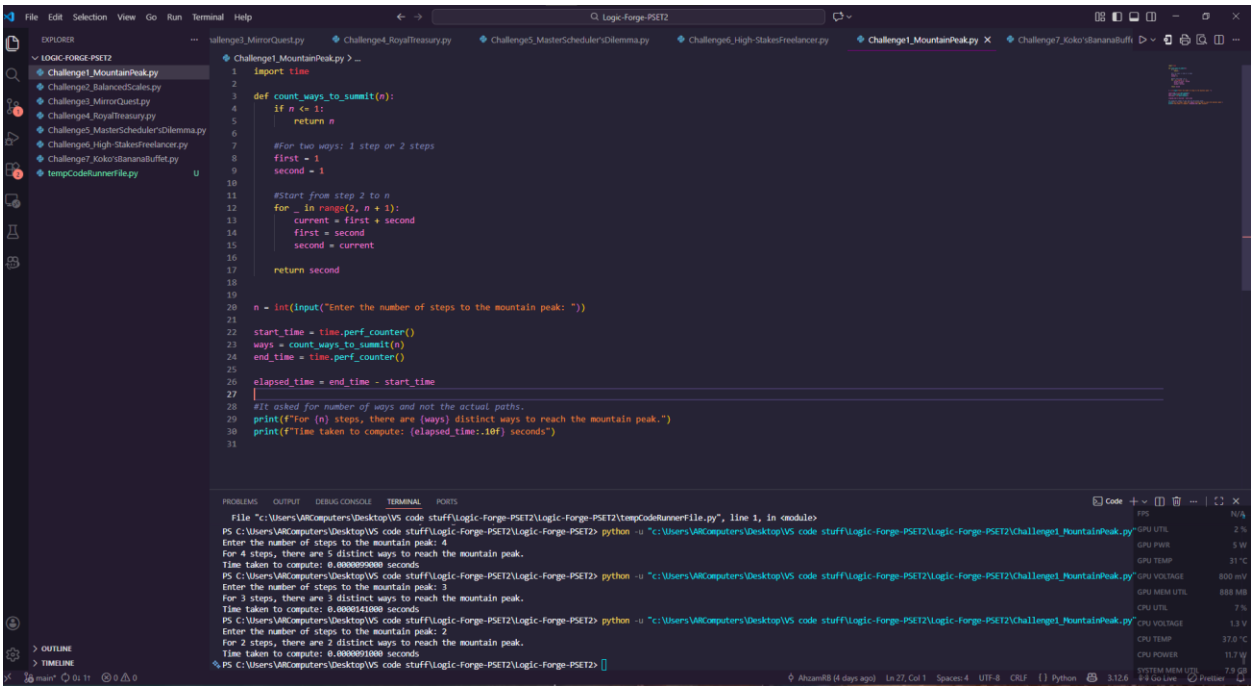
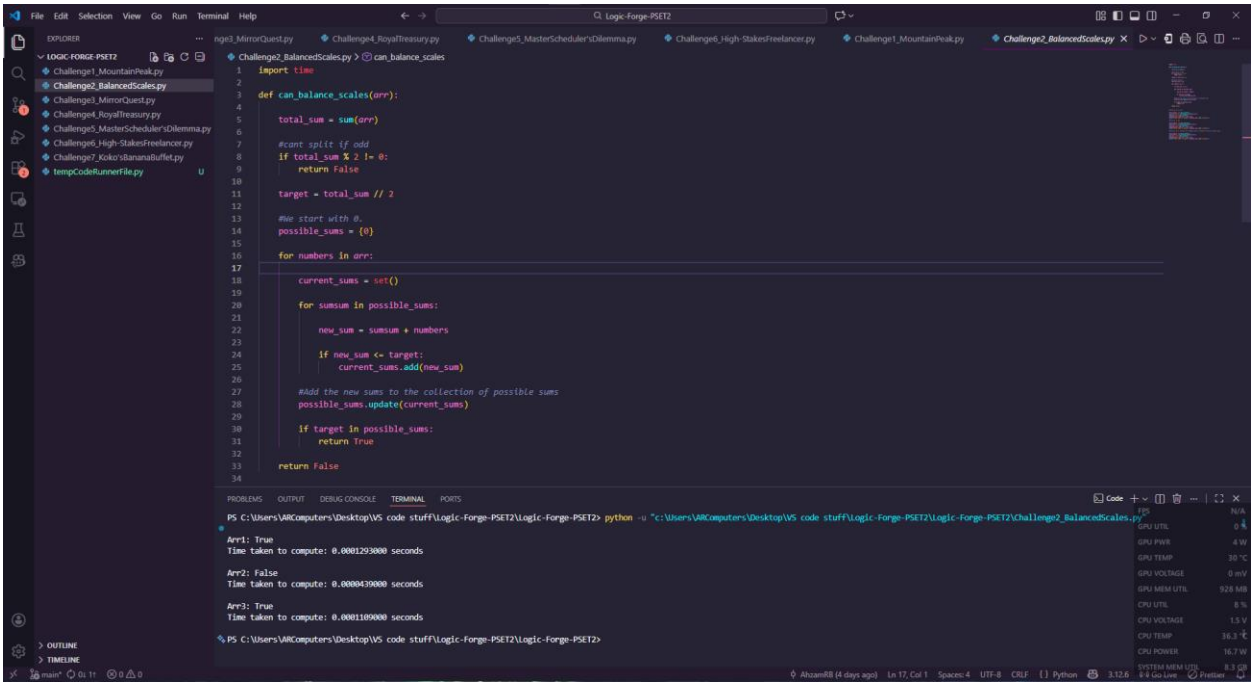
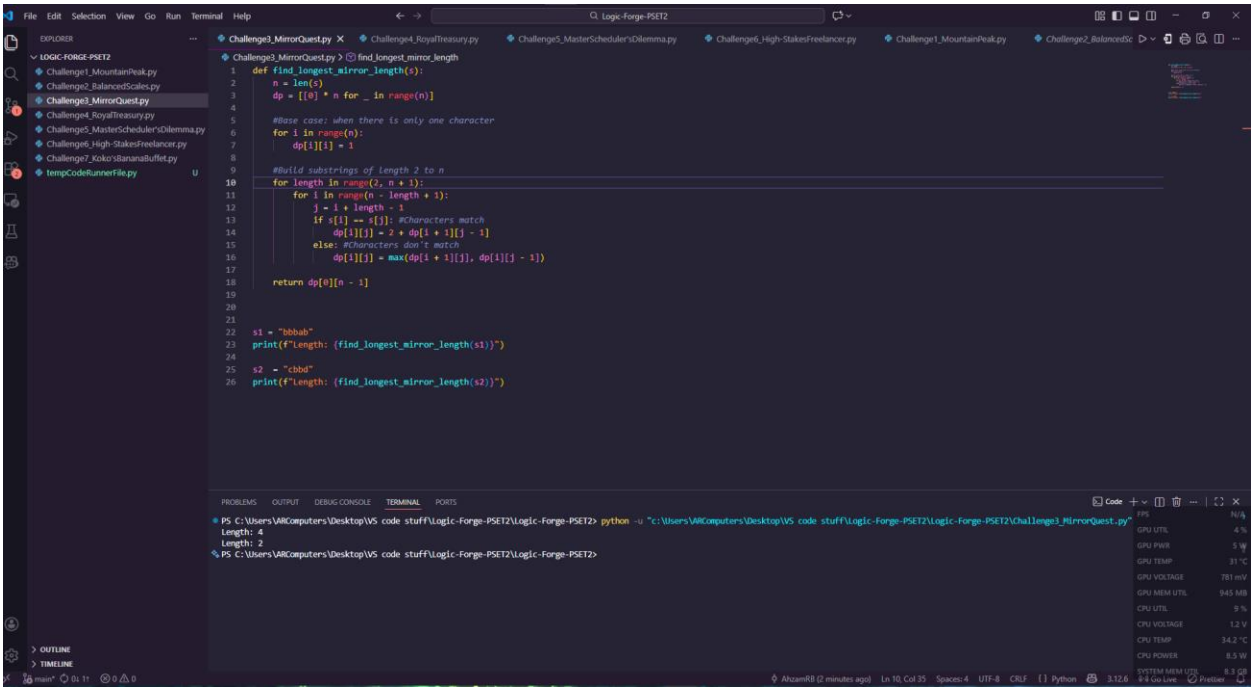
Problem1:



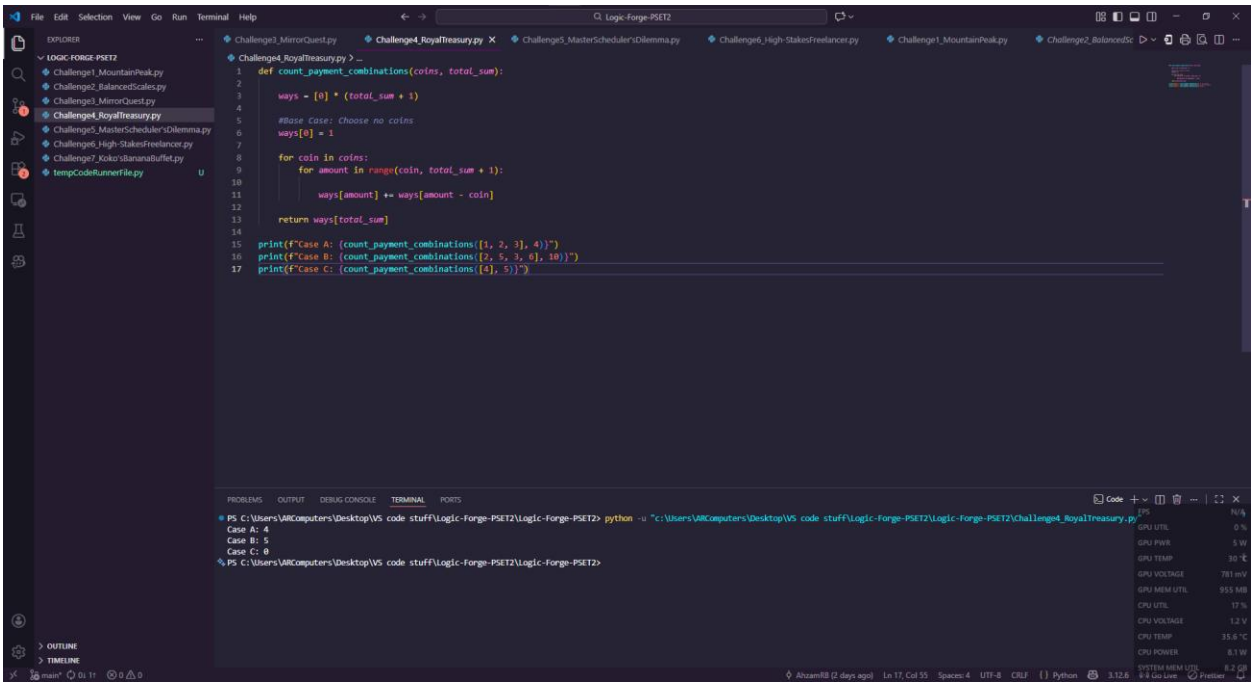
Problem2:



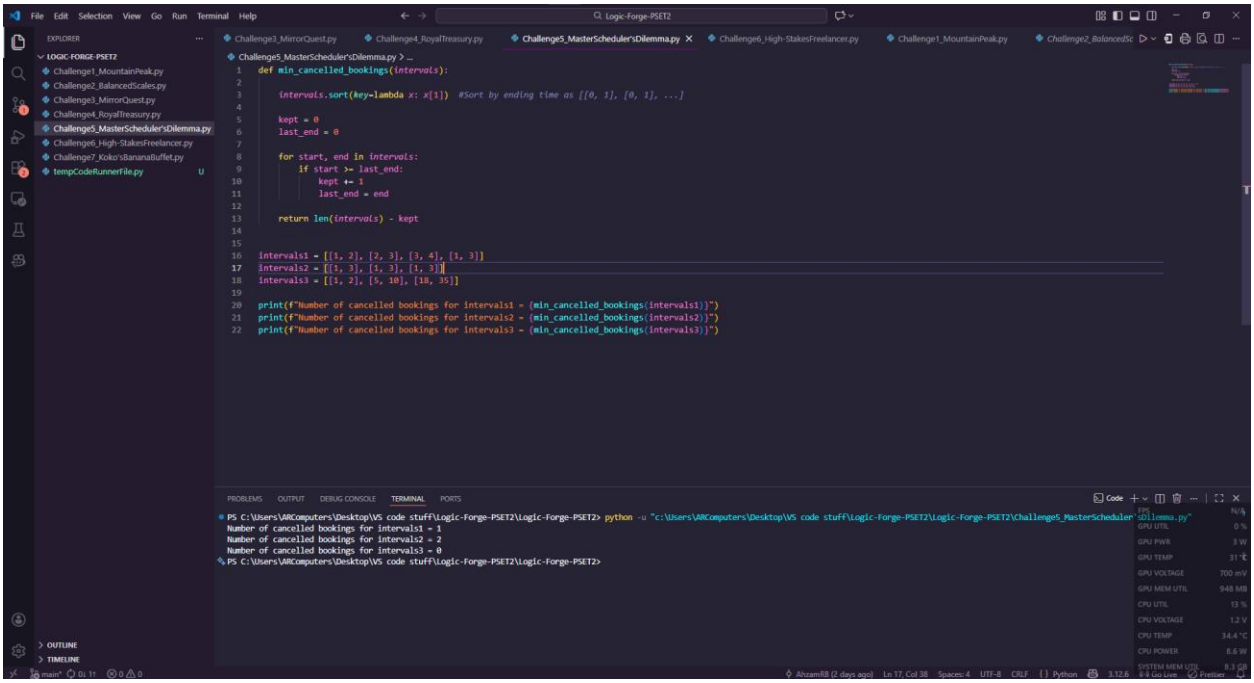
Problem3:



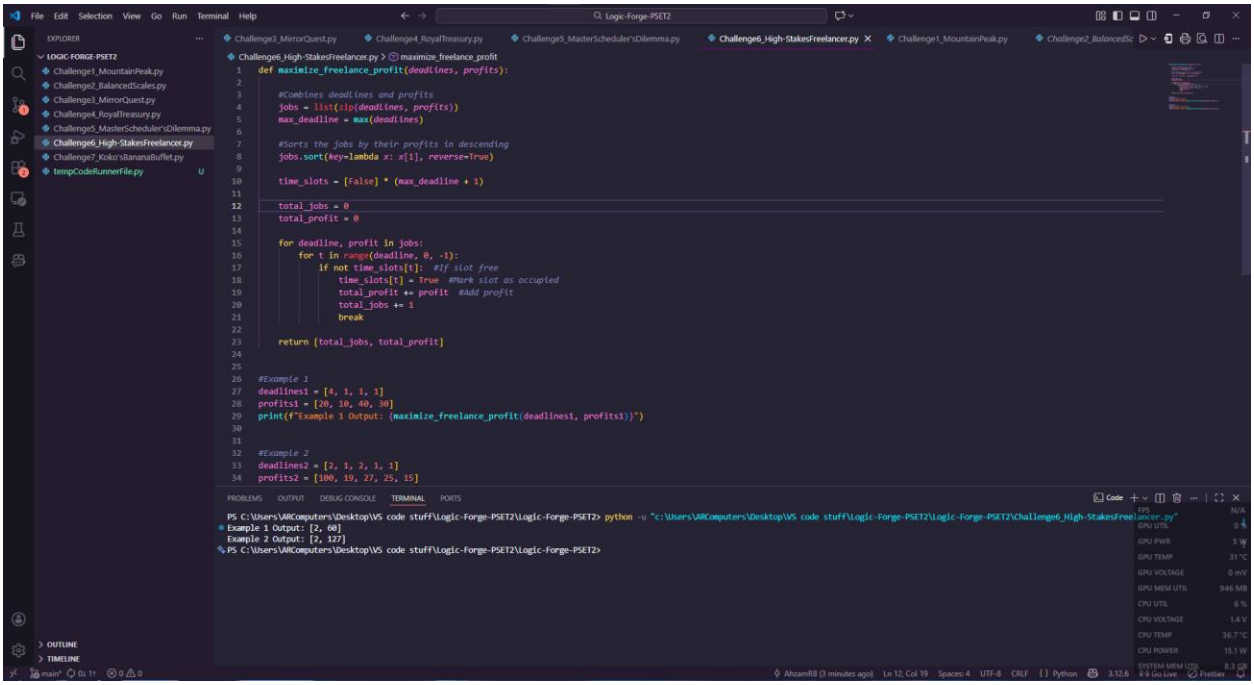
Problem4:



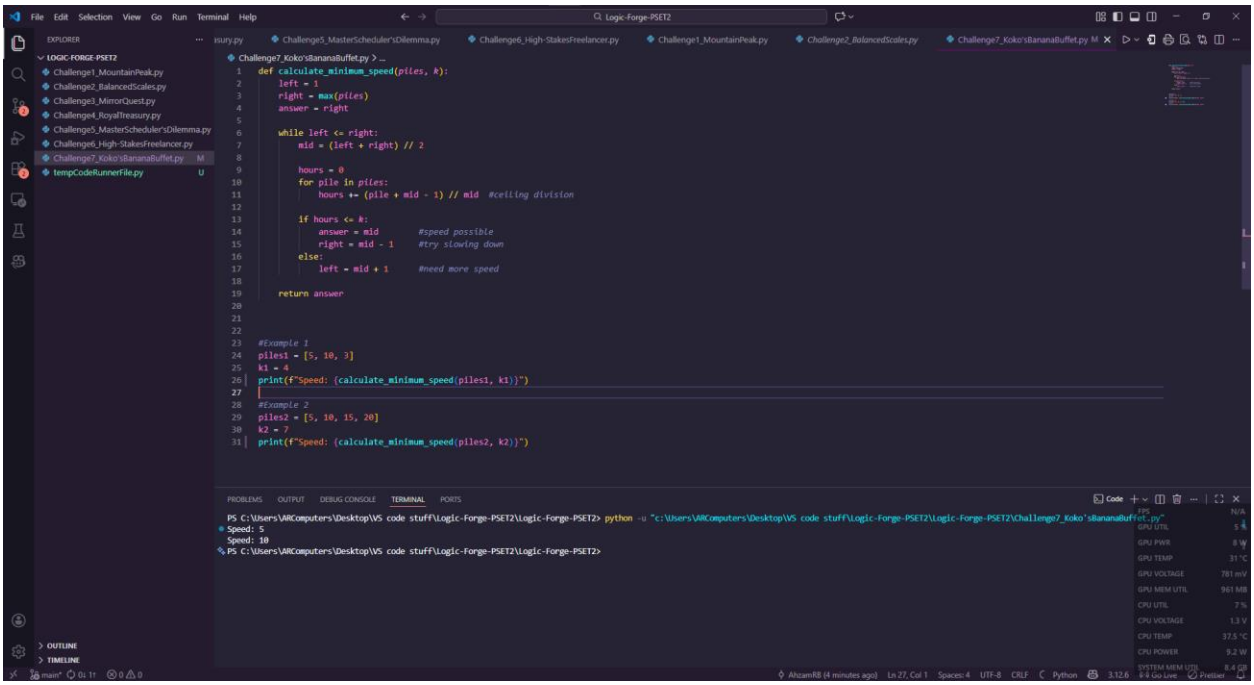
Problem5:



Problem6:



Problem7:


def calculate_minimum_speed(piles, k):
left = 1
right = max(piles)
answer = right
while left <= right:
mid = (left + right) // 2
hours = 0
for pile in piles:
hours += (pile + mid - 1) // mid #ceiling division
if hours <= k:
answer = mid #speed possible
right = mid - 1 #try slowing down
else:
left = mid + 1 #need more speed
return answer
#Example 1
piles1 = [5, 10, 3]
k1 = 4
print(f"Speed: {calculate_minimum_speed(piles1, k1)}")
#Example 2
piles2 = [5, 10, 15, 20]
k2 = 7
print(f"Speed: {calculate_minimum_speed(piles2, k2)}")
PS C:\Users\ARComputers\Desktop\VS code stuff\Logic-Forge-PSET2\Logic-Forge-PSET2> python -u "c:\Users\ARComputers\Desktop\VS code stuff\Logic-Forge-PSET2\Logic-Forge-PSET2\Challenge7_Koko'sBananaBuffet.py"
Speed: 5
Speed: 10
PS C:\Users\ARComputers\Desktop\VS code stuff\Logic-Forge-PSET2\Logic-Forge-PSET2>