P-21 Final Challenge

1) Find the Highest Altitude

Write a program to:
Given a list gain representing altitude changes, start from altitude 0 and return the highest altitude reached.

Test Case:

Input:

gain = [-5, 1, 5, 0, -7]

Output:

1

2) Minimum Sum of Four Digit Number After Splitting Digits

Write a program to:
Given a four-digit number, split its digits and rearrange them into two numbers so their sum is minimum.

Test Case:

Input:

num = 2932

Output:

52

(Explanation: 29 + 23 = 52)

3) Keep Multiplying Found Values by Two

Write a program to:

Given an array and a number original, if original exists in the array, multiply it by 2. Repeat until it no longer exists. Return the final value.

Test Case:

Input:

nums = [5,3,6,1,12]

original = 3

Output:

24

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4) Count Numbers with Even Number of Digits

Write a program to:

Given a list of integers, count how many numbers contain an even number of digits.

Test Case:

Input:

nums = [12,345,2,6,7896]

Output:

2