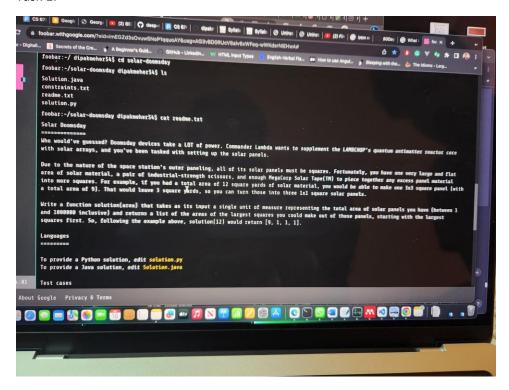
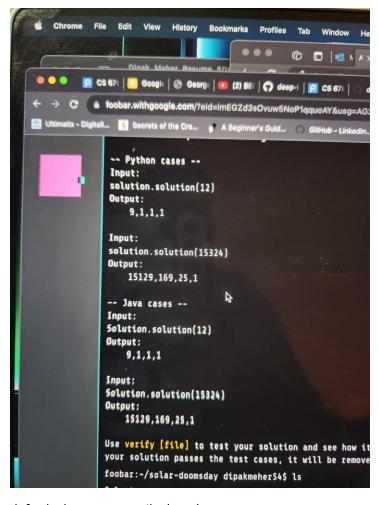
Level 1:

Task 1:



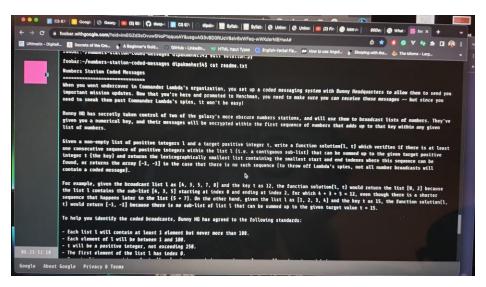


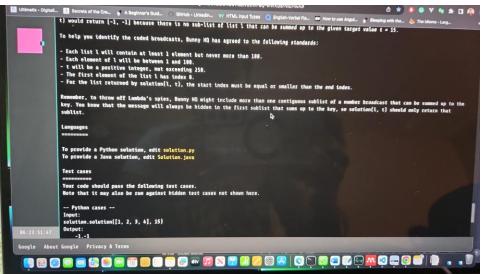
```
def calculate_square_tiles(area):
    square_sizes = []
    while area > 0:
        largest_square = int(area * 0.5) * 2
        square_sizes.append(largest_square)
        area -= largest_square
    return square_sizes

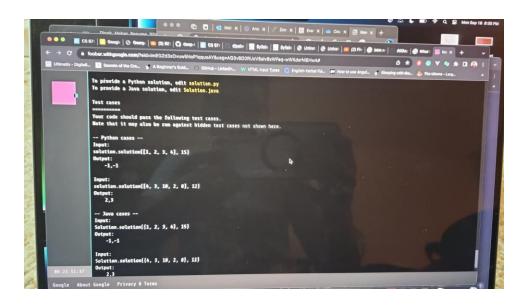
# Example usage:
area = 12
tiles = calculate_square_tiles(area)
print(tiles) # Output: [9, 1, 1, 1]
```

Level 2:

Task 1:







```
def find_sublist_with_sum(nums, key):
    left, right = 0, 0
    current_sum = 0

while right < len(nums):
    current_sum += nums[right]

while current_sum > key:
    current_sum -= nums[left]
    left += 1

if current_sum == key:
    return [left, right]

right += 1

return [-1, -1]
```

```
# Example usage:
nums = [4, 3, 10, 2, 8]
key = 12
result = find_sublist_with_sum(nums, key)
print(result) # Output: [2, 3]
Task 2:
First calculate no of element in perfect binary tree using height. Find the parent element using below
algorithm. H – height; q – list of labels who parents has to be returned
def solution(h, q):
  result = []
  for label in q:
    current = (2 ** h) - 1 # Start from the root
    parent = (2 ** (h - 1)) - 1 # Parent of the current node
    while current != label:
       if current == 1 or parent == label:
         break
       elif label > parent: # If label is on the right side, move to the left
         current = parent - 1
       else: # If label is on the left side, move to the right
         current = parent
       h -= 1
       parent = (parent - 1) // 2 # Calculate the parent of the current node
    if current == label:
```

```
result.append(-1)
else:
result.append(parent)

return result

# Example test cases

print(solution(3, [7, 3, 5, 1])) # Output: [-1, 7, 6, 3]

print(solution(5, [19, 14, 28])) # Output: [21, 15, 29]
```