

- Design DS
- Hashmap
- Binary Search
- Array

	1		
			1
1			
		1	1

- Two pointers
- Dynamic Programming

- Heaps
- Monotonic Stack
- Linked list

		1	
1			
			1
	1		

- Trees

- BFS

- DFS

- Backtracking

- Graph

- 
- Tries

- Design (LRU cache, Autocomplete, Logging Rate)
- Sliding Window
- DP2



# Combination Sum

[2, 3, 6, 7]

T = 7

// action

// Return

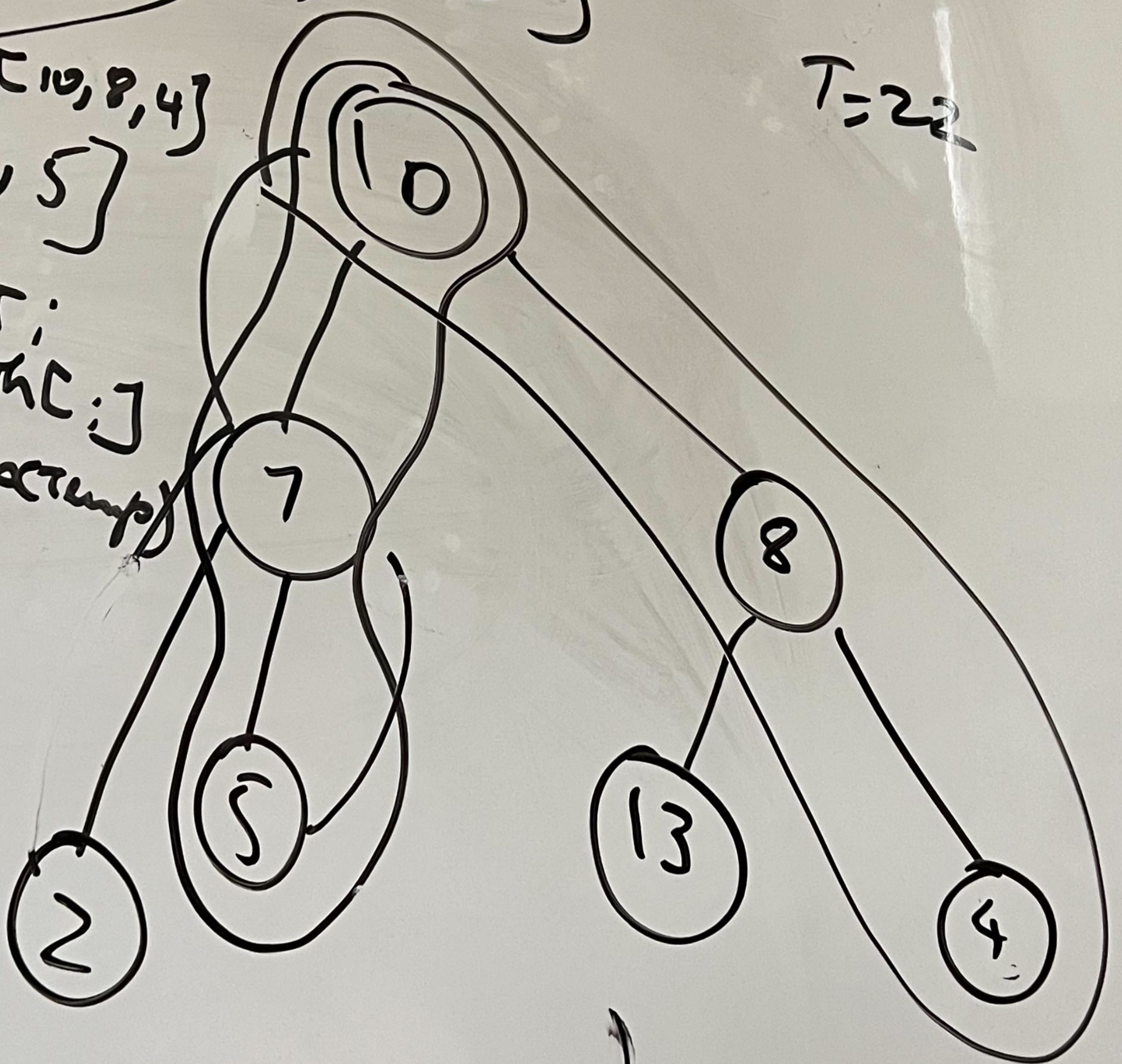
// backtrack  
Path\*

[10, 7, 2, 8, 1, 4]  
[[], []]

[10, 8, 4]

[10, 7, 5]

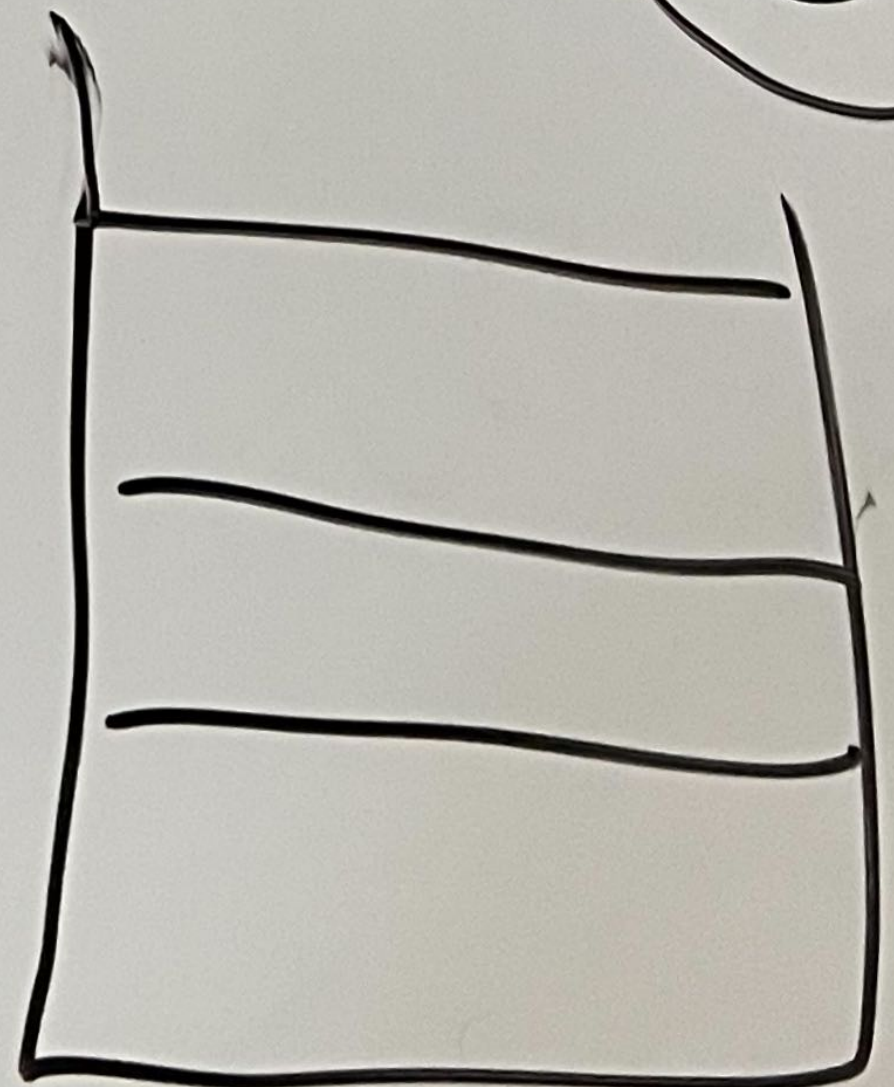
if cur == T:  
temp = Path[:]  
result.append(temp)



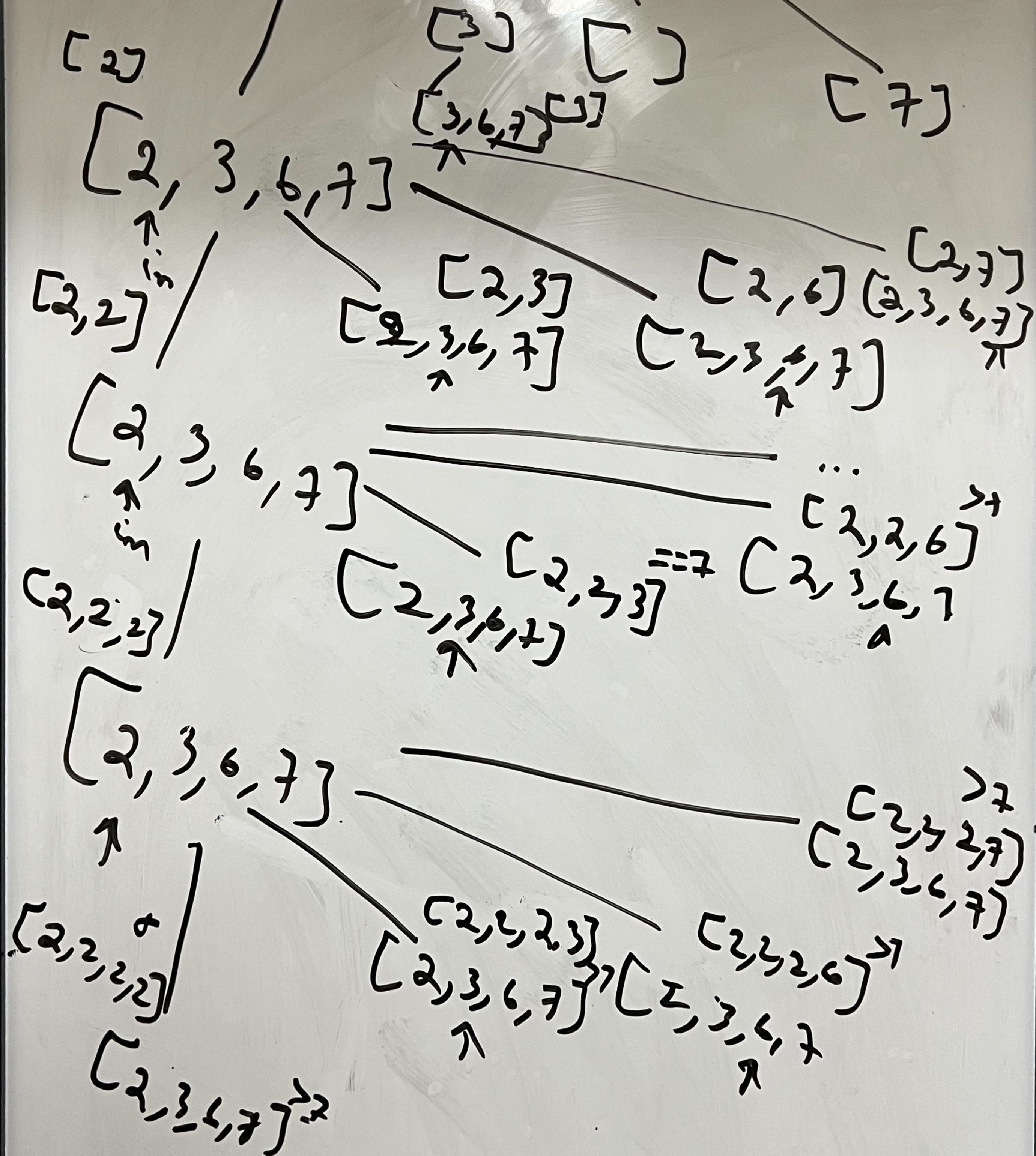
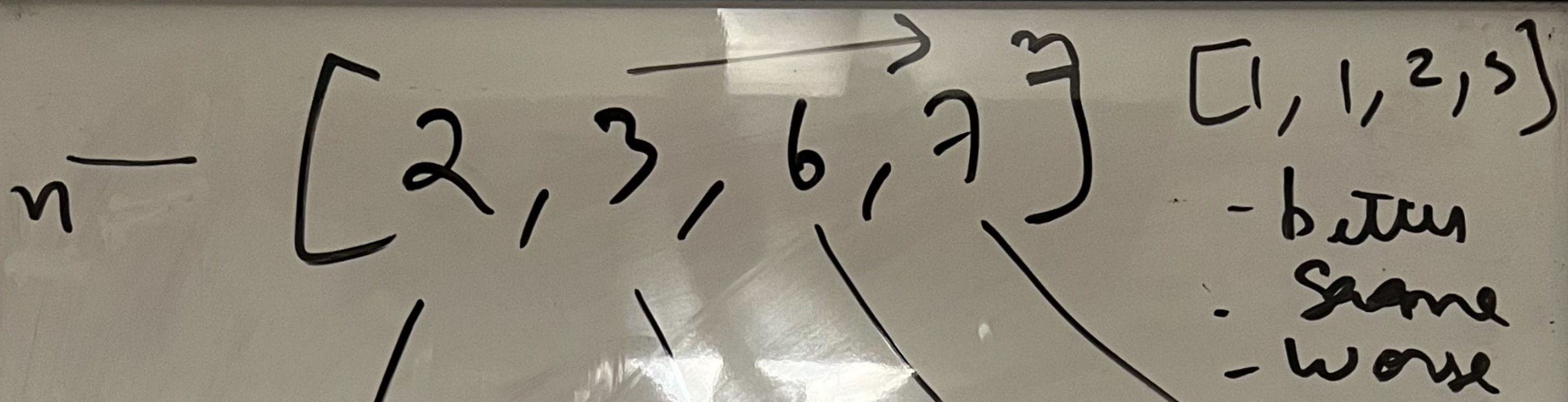
T = 22

// backtrack  
pop()

Going back to  
Previous state









# Combination Sum rec target, i, path)

100

