

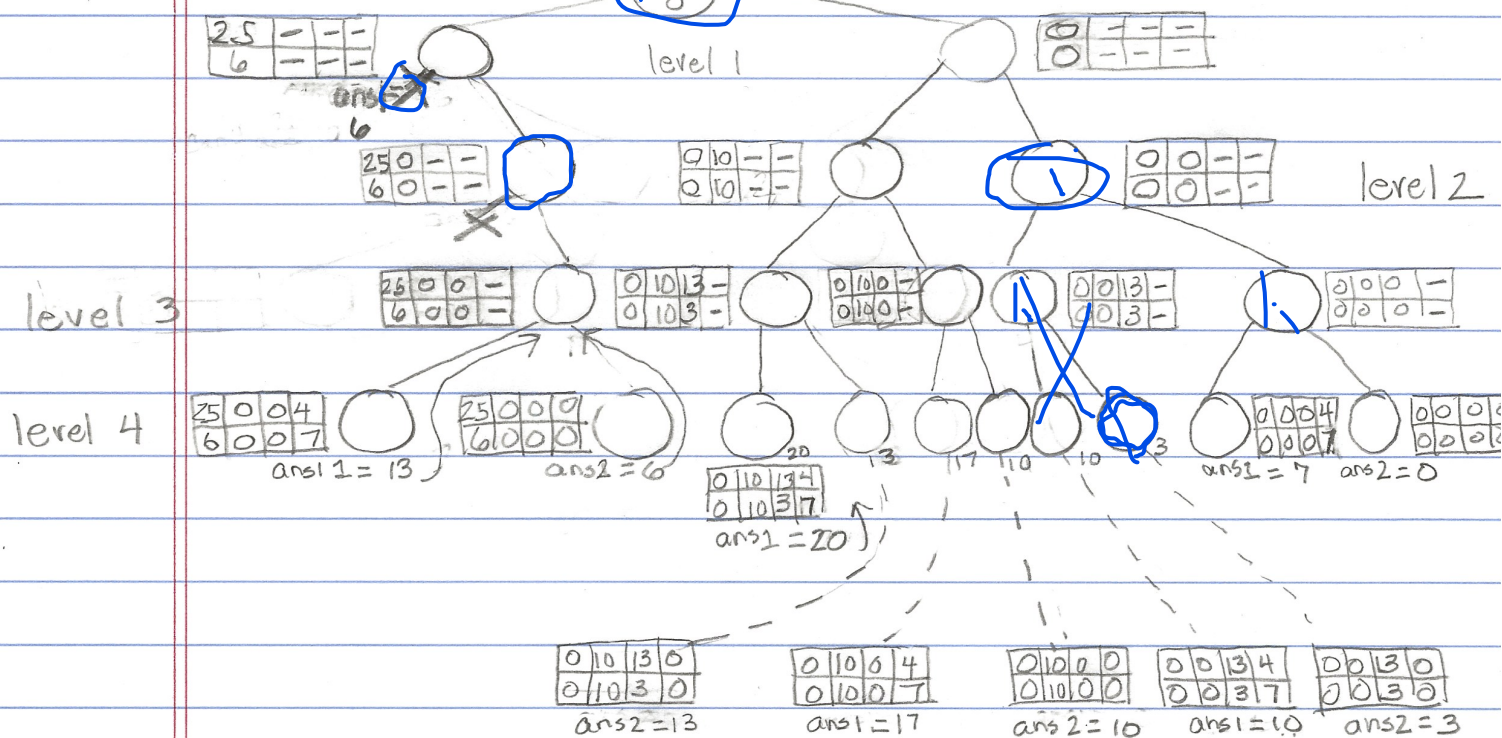
25	10	13	4	weight
6	10	3	7	value

Optimal Fill

capacity = 30

enter optimal Fill

deciding what to put
at index 0)



greedy Fill

always take most valuable that fits

thing taken

current
weight
10

Current
value
10

25	10		
4	10		
0	1	2	3

1

10

10

10	4
10	7

3

14

17

	10	13	4
	10	3	7

2

27

20

This example happens to give you the optimal answer with the greedy algorithm, but what about the example below give you?

25	6	20	10	ω
10	9	9	10	✓

Capacity = 30

for value 10

The greedy algorithm would take just thing 0, when it could have taken things 2 and 3 for value 19