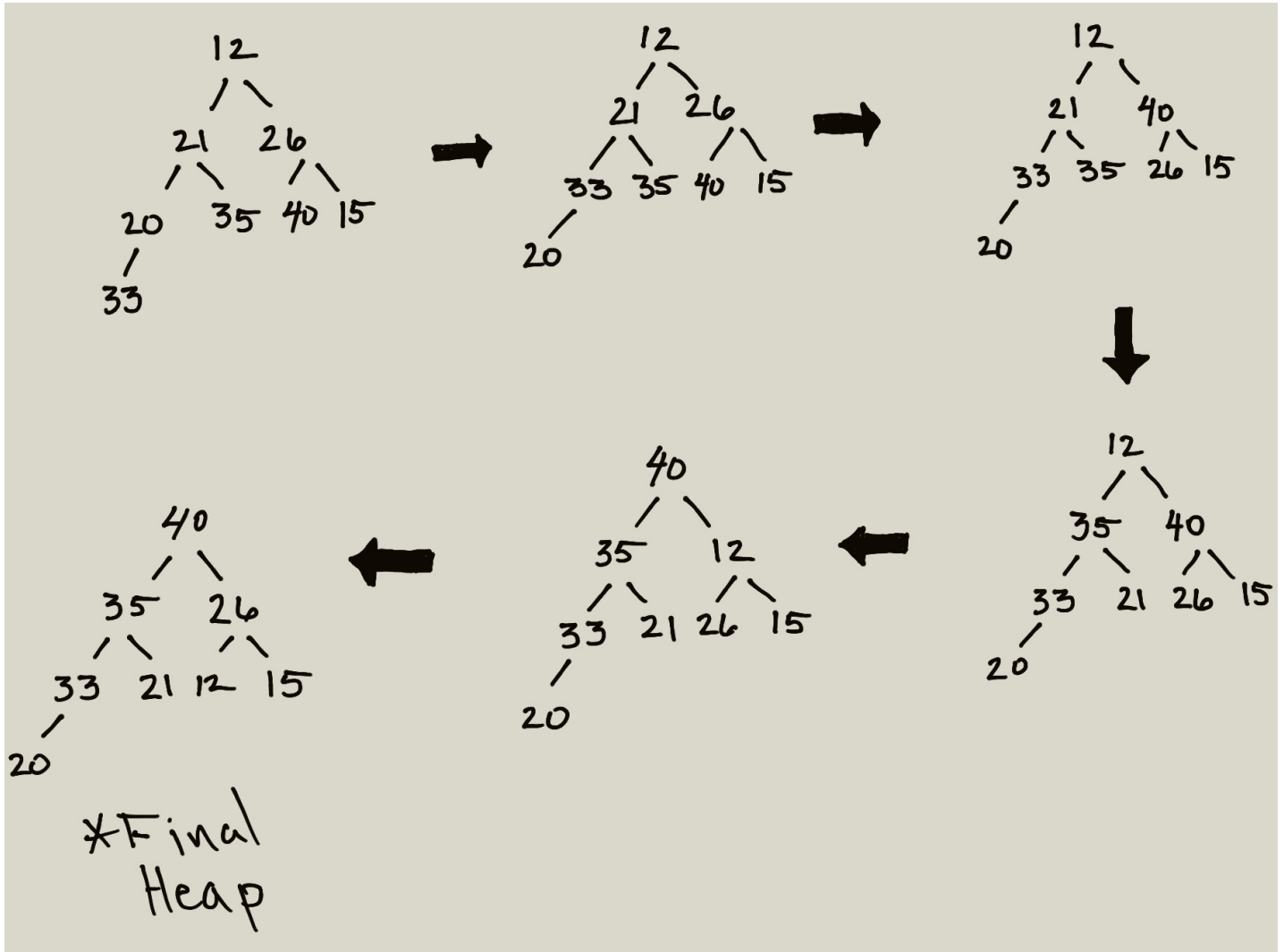


Problem 1 #1:



Problem 1 #2:

$$\{40, 35, 26, 33, 21, 12, 15, 20\}$$

Problem 1 # 3:

1. 40, 35, 26, 33, 21, 12, 15, 20

20, 35, 26, 33, 21, 12, 15, 40 *

2. 35, 33, 26, 20, 21, 12, 15, 40

15, 33, 26, 20, 21, 12, 35, 40 *

3. 33, 21, 26, 20, 15, 12, 35, 40

12, 21, 26, 20, 15, 33, 35, 40 *

4. 26, 21, 12, 20, 15, 33, 35, 40

15, 21, 12, 20, 26, 33, 35, 40 *

5. 21, 20, 15, 12, 26, 33, 35, 40

12, 20, 15, 21, 26, 33, 35, 40 *

6. 20, 15, 12, 21, 26, 33, 35, 40

12, 15, 20, 21, 26, 33, 35, 40 *

7. $\{12, 15, 20, 21, 26, 33, 35, 40\}$

Problem 2 #1:

* 'go' causes
overflow

0. if
1. to
2. my
3. the
4. an
5. by
6. do
7. we

Problem 2 #2:

* 'we' causes
overflow

- 0.
1. by
2. my
3. the
4. do
- 5.
6. an
- 7.

Problem 2 #3:

* 'we' causes
overflow

- 0.
- 1.
2. my
3. the
4. do
5. an
6. by
- 7.

Problem 3 #1:

a:

$$1 = 2$$

$$2 = 0$$

$$3 = 2$$

$$4 = 1$$

$$5 = 1$$

$$6 = 3$$

$$7 = 1$$

$$8 = 3$$

$$'' = 2$$

$$h = 5$$

$$p = -15$$

b:

$$1 = 2$$

$$2 = 0$$

$$3 = 2$$

$$4 = 1$$

$$5 = 2$$

$$6 = 3$$

$$7 = 1$$

$$8 = 2$$

$$'' = 1$$

$$h = 14$$

$$p = -14$$

d:

$$1 = 2$$

$$2 = 0$$

$$3 = 1$$

$$4 = 1$$

$$5 = 2$$

$$6 = 3$$

$$7 = 1$$

$$8 = 3$$

$$'' = 0$$

$$h = 13$$

$$p = -13$$

h:

$$1 = 2$$

$$2 = 0$$

$$3 = 1$$

$$4 = 1$$

$$5 = 2$$

$$6 = 3$$

$$7 = 2$$

$$8 = 3$$

$$'' = 1$$

$$h = 15$$

$$p = -15$$

Problem 3 #2:

a:

1 = 2
2 = 0
3 = 2
4 = 1
5 = 1
6 = 3
7 = 1
8 = 3
' = 2

$h = 15$

$$p = -(15 + 0) \\ = -15$$

b:

1 = 2
2 = 0
3 = 2
4 = 1
5 = 2
6 = 3
7 = 1
8 = 2
' = 1

$h = 14$

$$p = -(14 + 1) \\ = -15$$

d:

1 = 2
2 = 0
3 = 1
4 = 1
5 = 2
6 = 3
7 = 1
8 = 3
' = 0

$h = 13$

$$p = -(13 + 2) \\ = -15$$

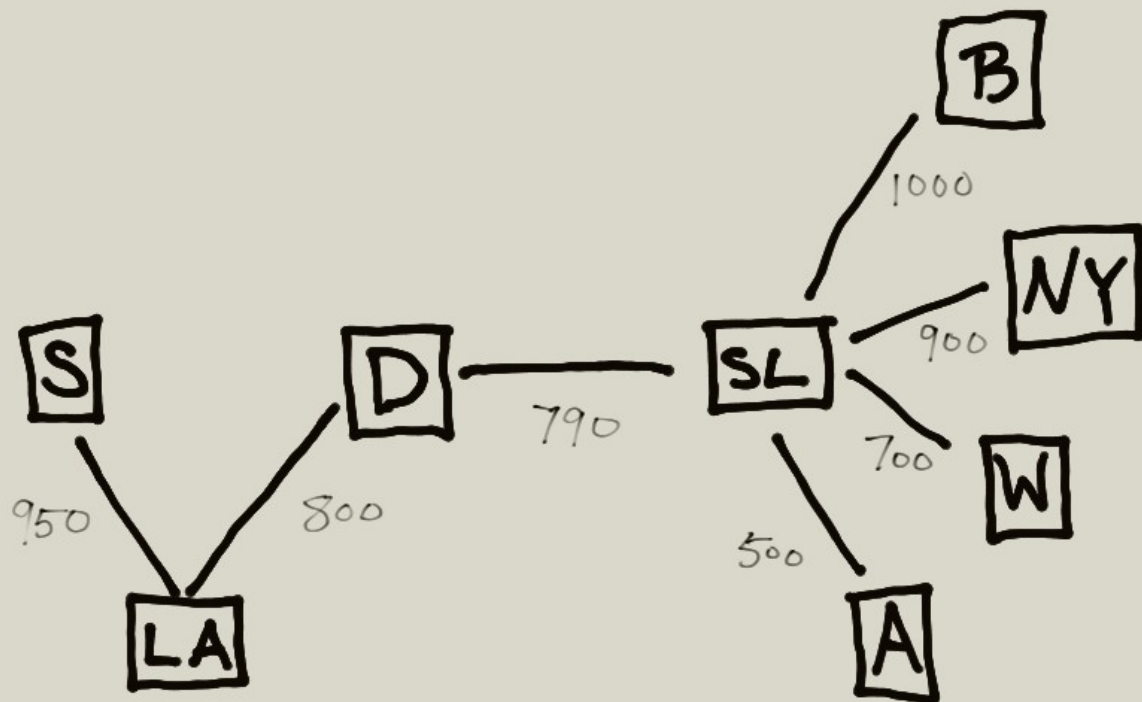
h:

1 = 2
2 = 0
3 = 1
4 = 1
5 = 2
6 = 3
7 = 2
8 = 3
' = 1

$h = 15$

$$p = -(15 + 3) \\ = -18$$

Problem 7 #1:



$$(LA, D) \rightarrow 800$$

$$(LA, S) \rightarrow 950$$

$$(LA, SL) \rightarrow 1590$$

$$(LA, A) \rightarrow 2090$$

$$(LA, W) \rightarrow 2290$$

$$(LA, NY) \rightarrow 2490$$

$$(LA, B) \rightarrow 2590$$

Problem 9 # 1:

