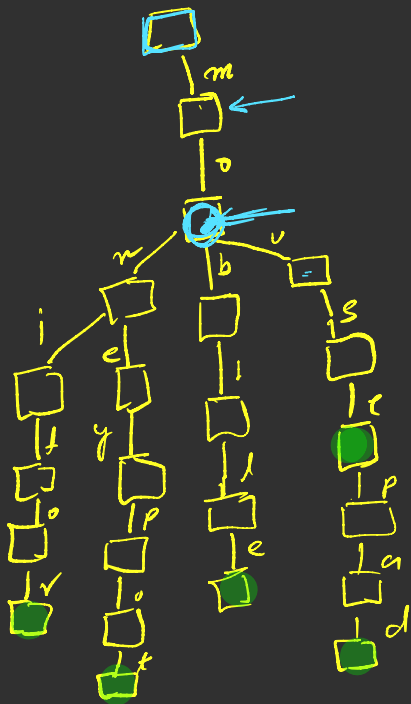


# L79

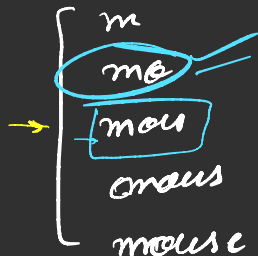
## Mixed Problems 1

Join Discord - <https://bit.ly/ly-discord>

RECAP



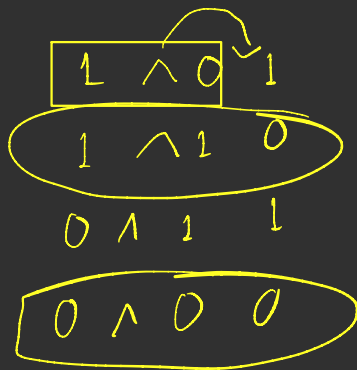
moue





af (S)

5 → 000 ..... 101 ✓  
 111 ..... 010  
 111 ..... 010



# 1. Maximum XOR Pair

3

000...11

10

000...1010

5

000...101

25

000...11001 ✓

2

000...10

8

000...1000

111...00 ✓✓

0 0 0 1 1 1 1 0 0

0 1 0 1 0 1 0 1 0 1

0 0 1 0 1 1 0 1 0

1 1 0 0 1 0 0 1 1 0

0 0 0 1 0 1 1 1 0 1

0 1 0 0 0 1 0 1 1 1

Intuition

$$\begin{array}{r} 11100 \\ \hline 25 \end{array} \quad (25)$$

00101-5 (25)

1 1 0 0 1 -25 (5)

$$00010 - 2 \quad 25$$

01000 - 825



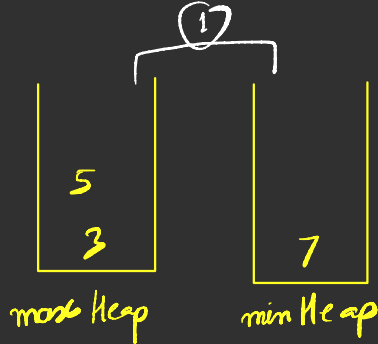


Let's implement

## 2. Farthest Reachable Building

Intuition

Let's implement



+

### 3. Median of a running data stream

max Heap

0

1

1

.

min Heap

0

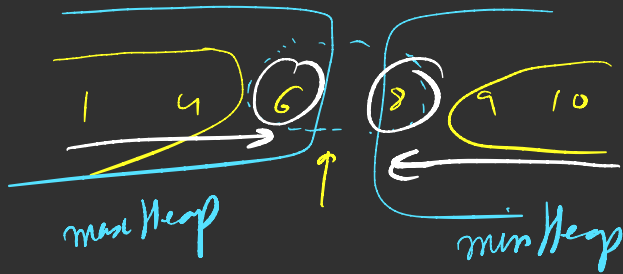
0

1

5

3

7



Intuition

Let's implement

# Thank You!

Reminder: Going to the gym & observing the trainer work out can help you know the right technique, but you'll muscle up only if you lift some weights yourself.

So, PRACTICE, PRACTICE, PRACTICE!