

Lecture 7

Topic of Discussion

- ① Bloom Filters-
- ② High Water Mark Index
- ③ High Water Mark with Reconciliation in Kafka.
- ④ CAP Theorem
- ⑤ Consistent Hashing.

⑥ System Design for CI/CD Deployment

Bloom Filter:

Probabilistic

1000



B+

B-

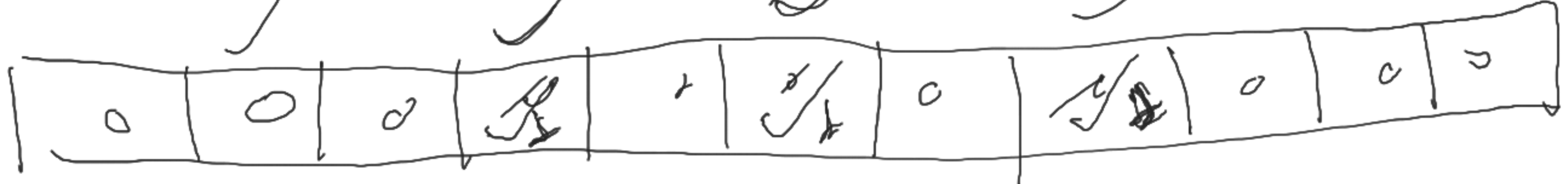
Markle Tree



=

11111 = 1

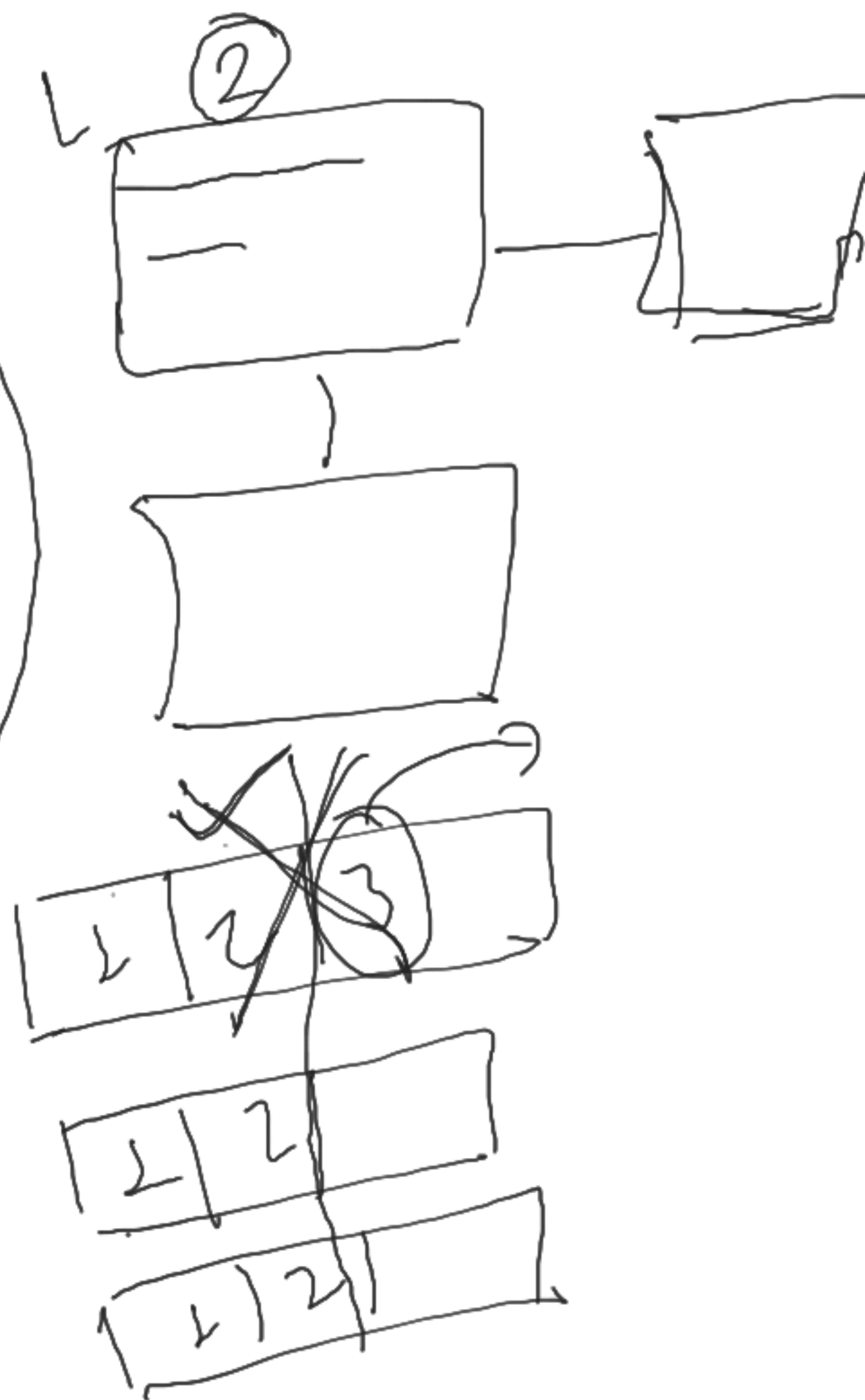
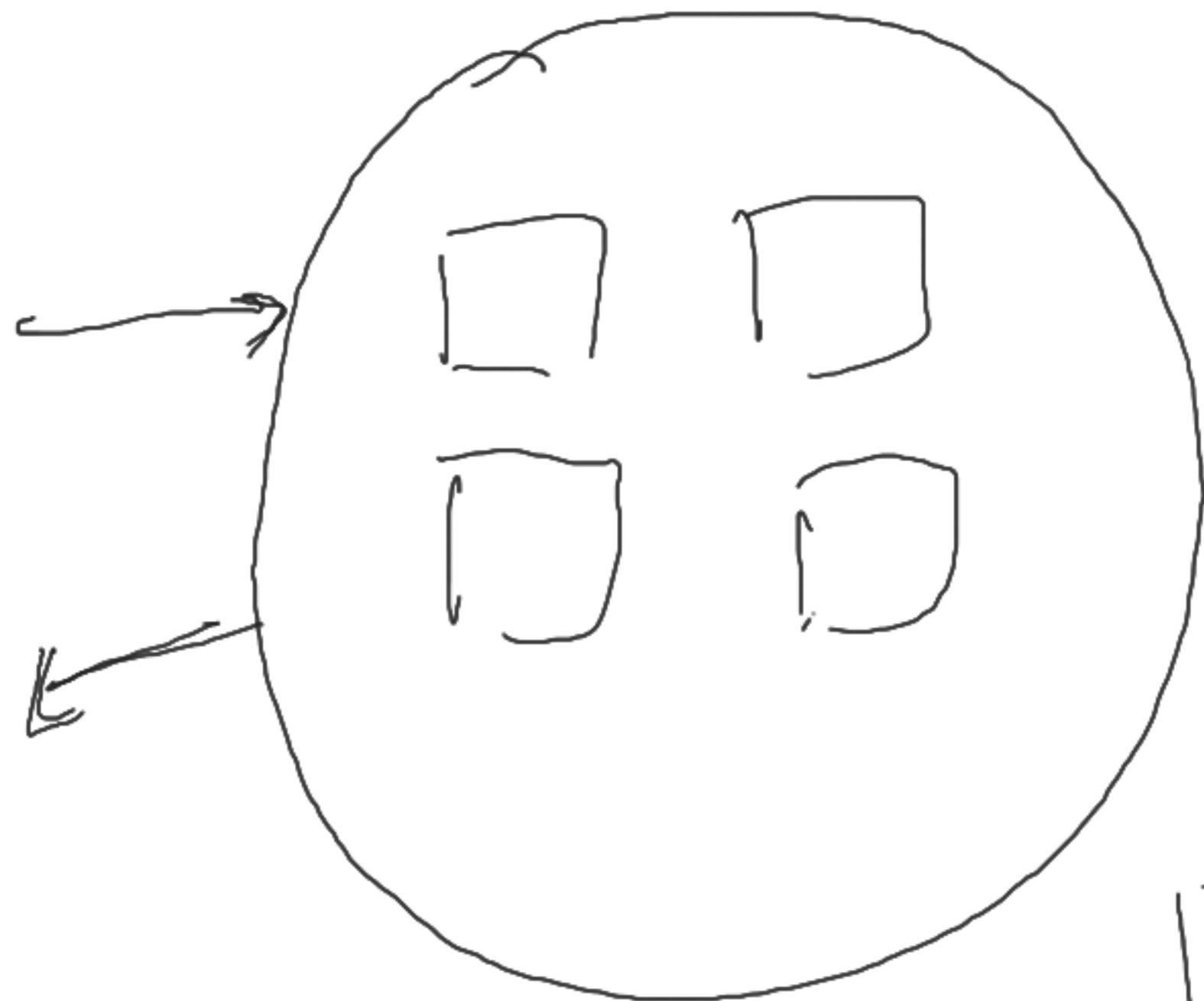
(0, 1, 2)

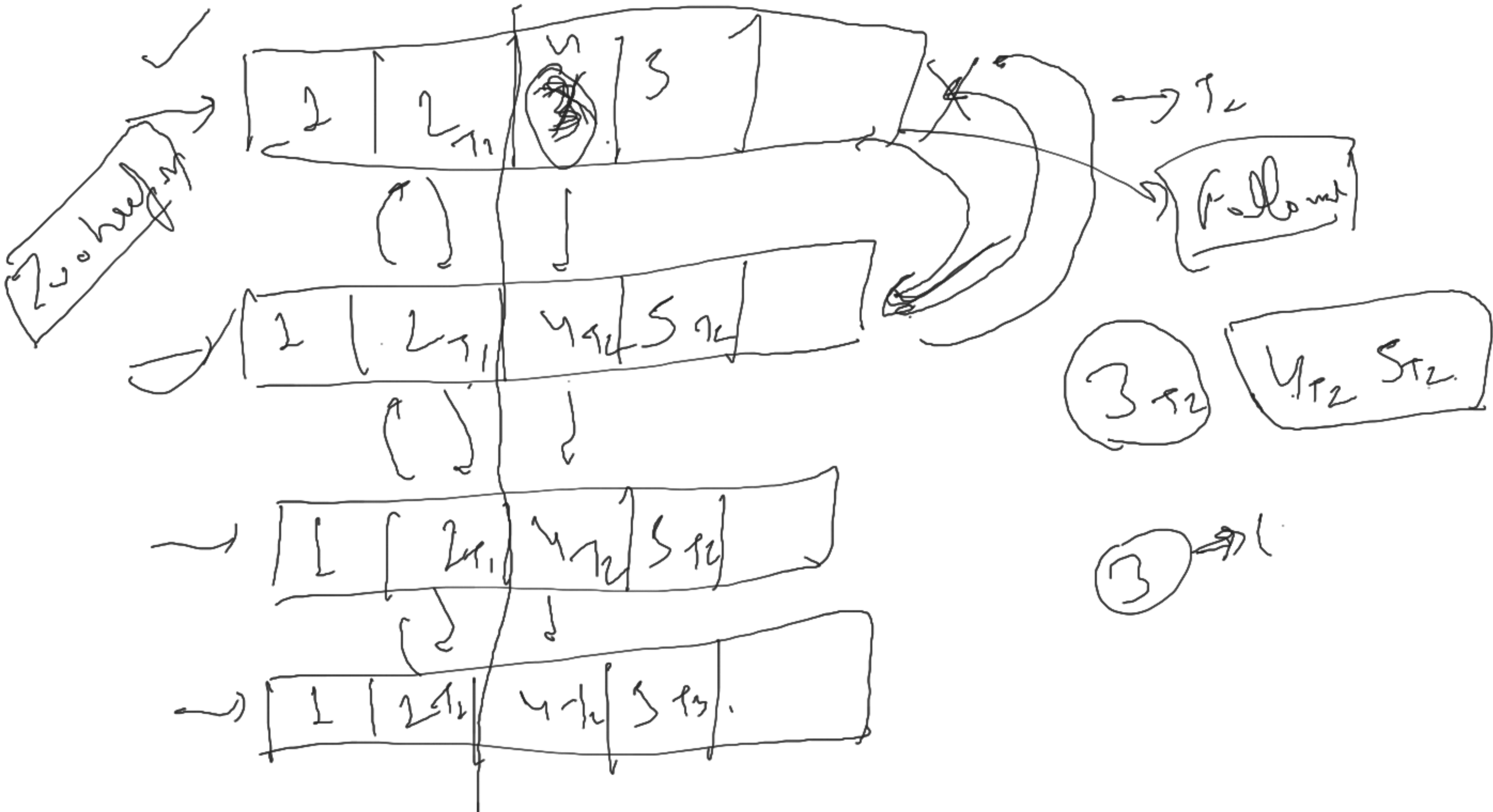


0 1 2



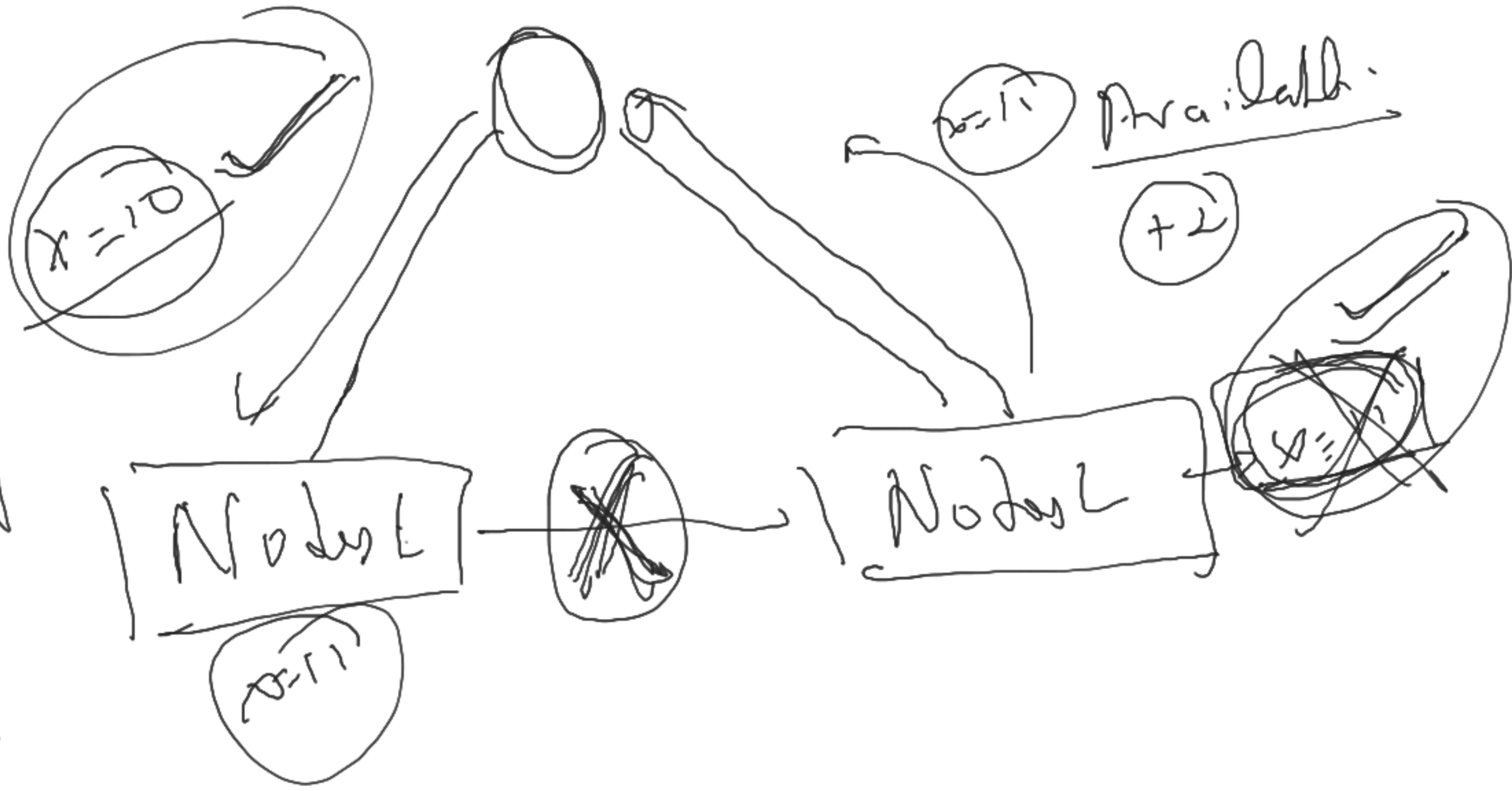
High Water
Mark Indict:





CAP Theorem:

- Consistency
- Availability
- Partition Tolerance



Available:
+2

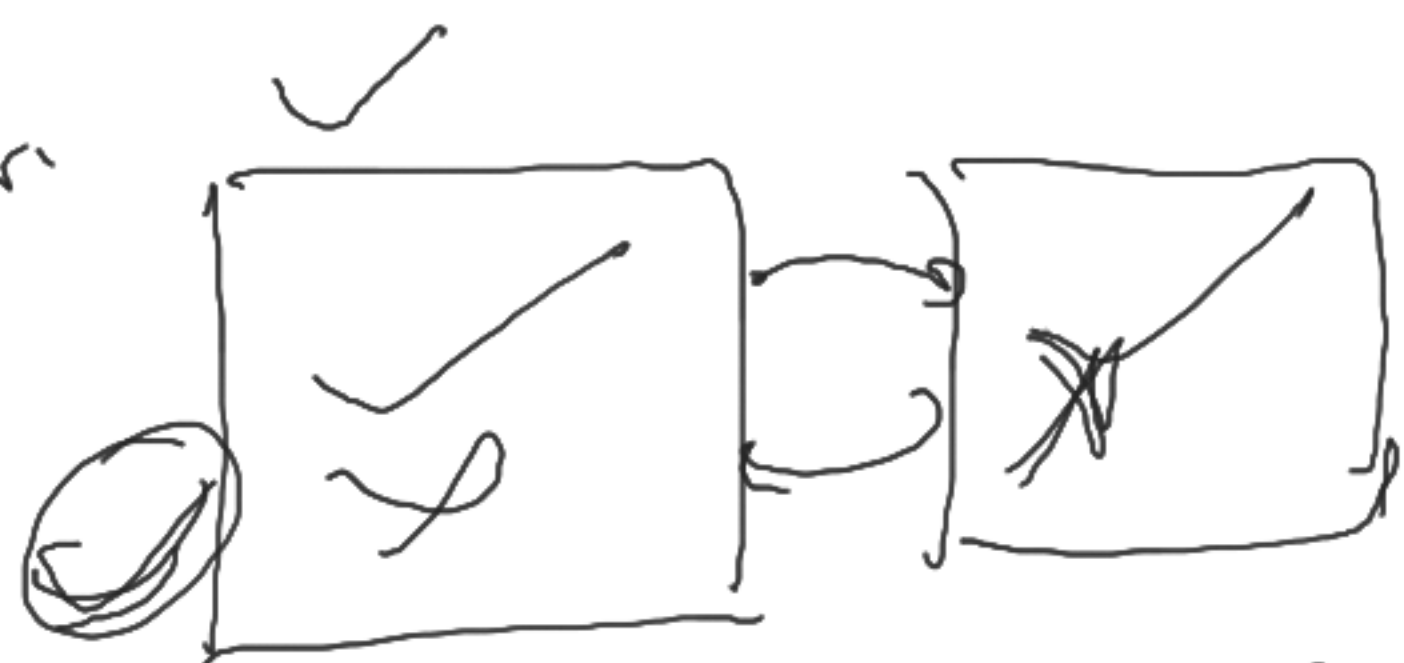
Ques: Find the missing

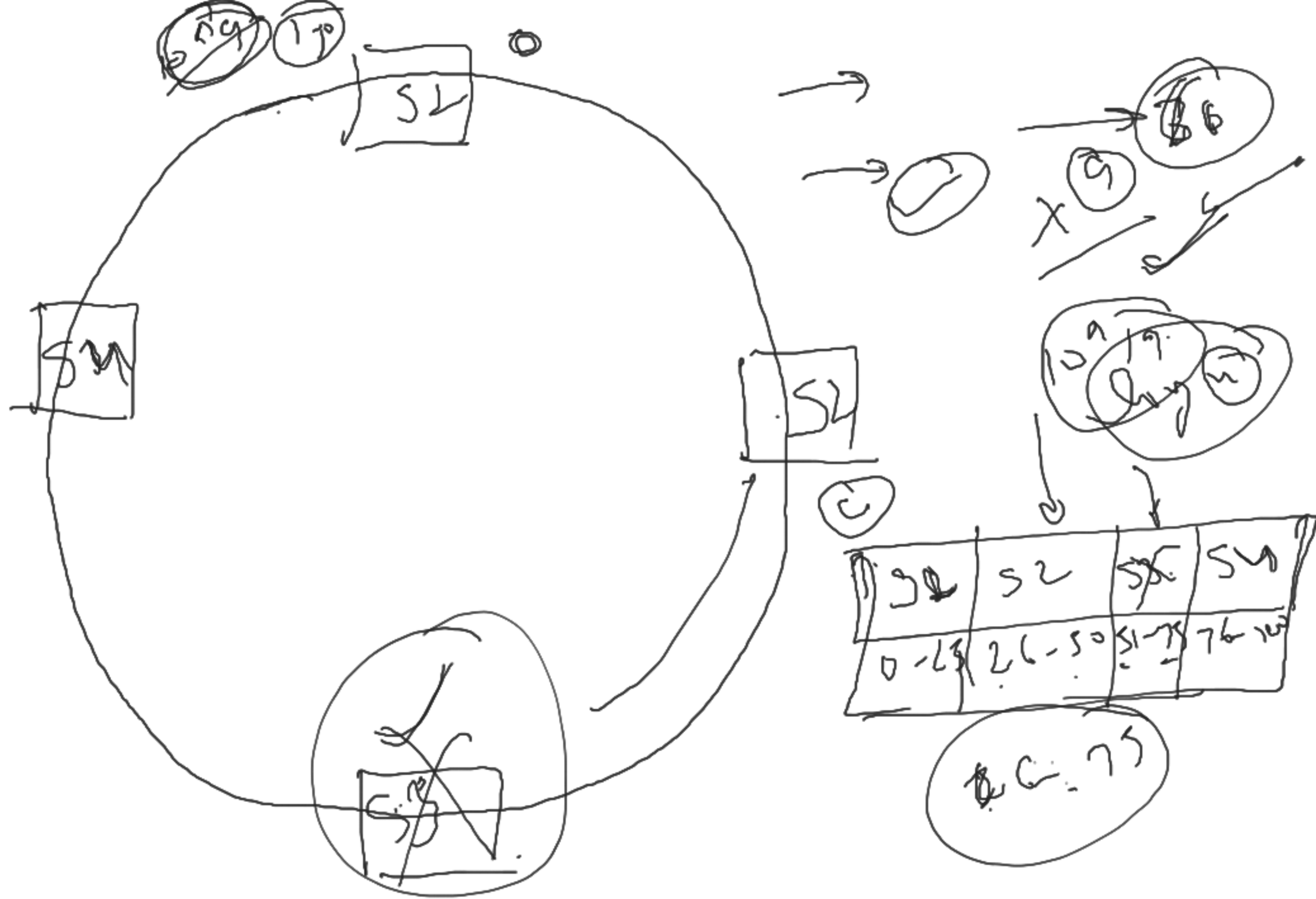
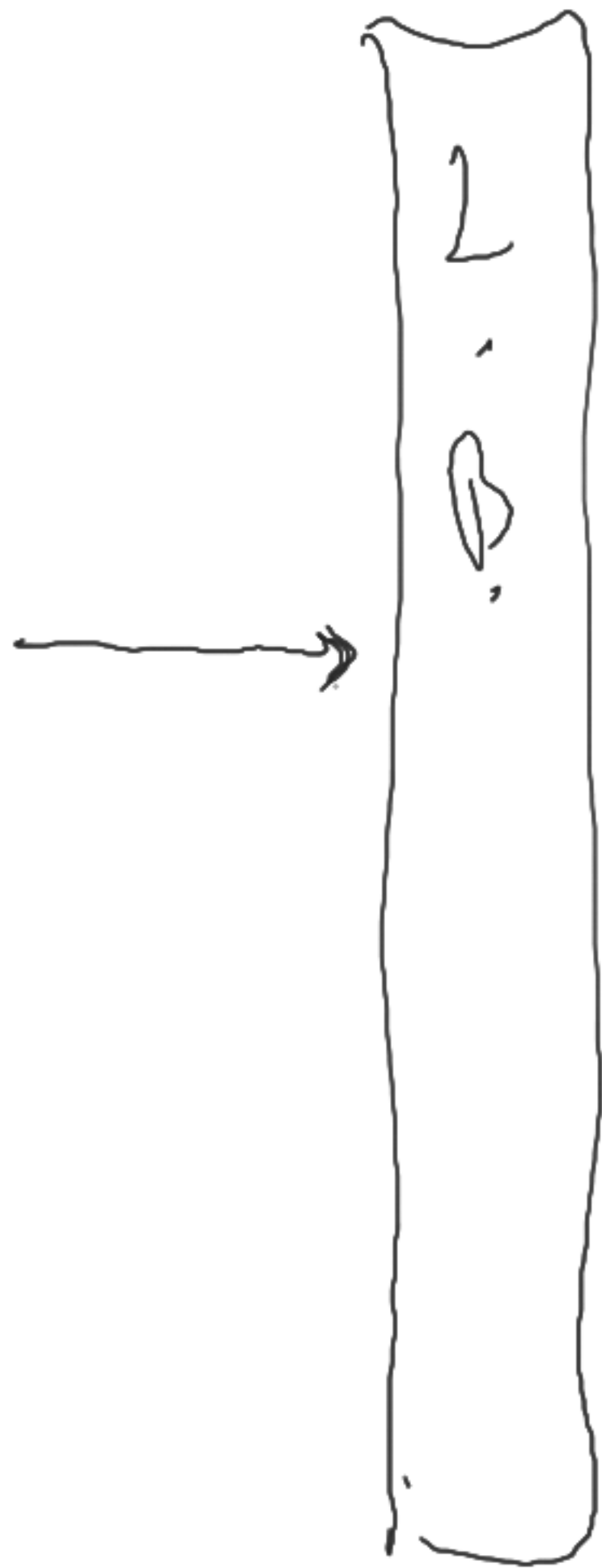
Many

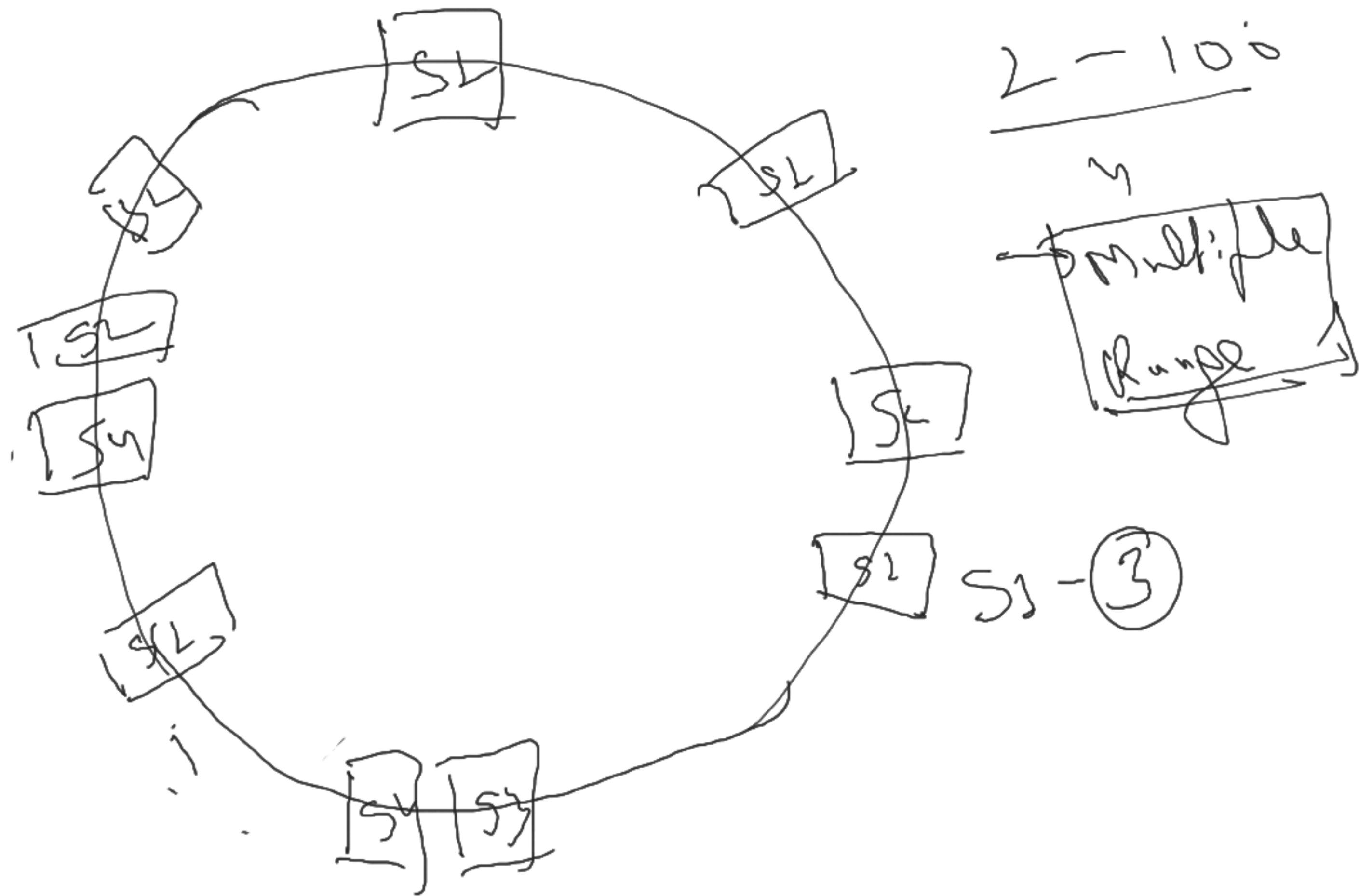
(A)

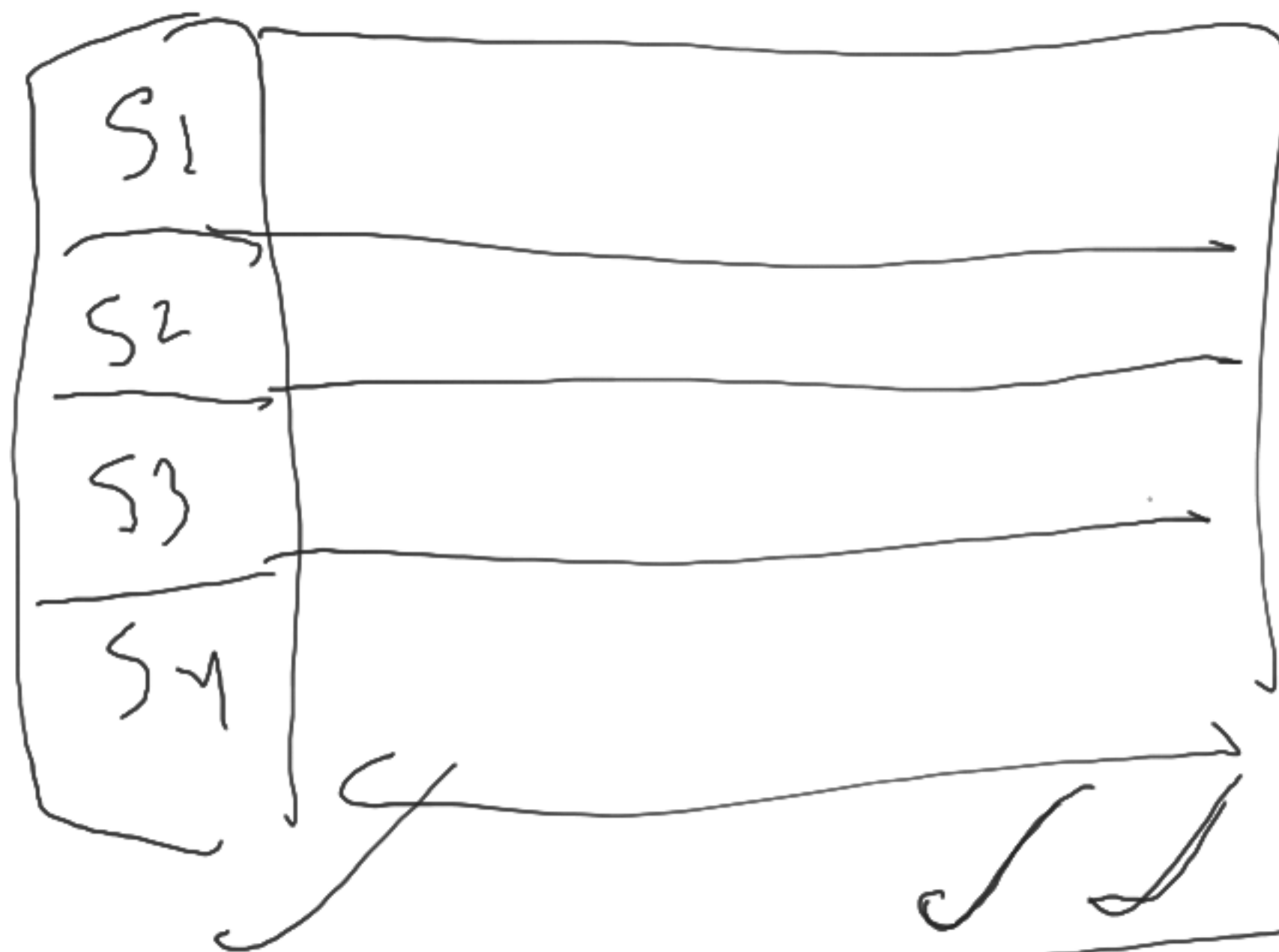
Post r.

cyⁿ

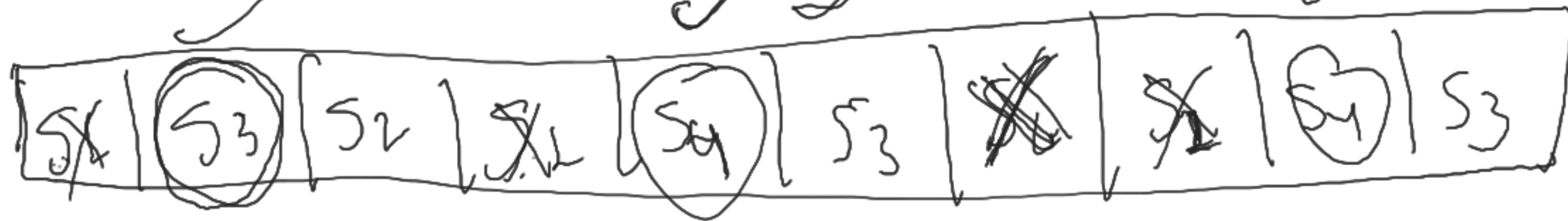




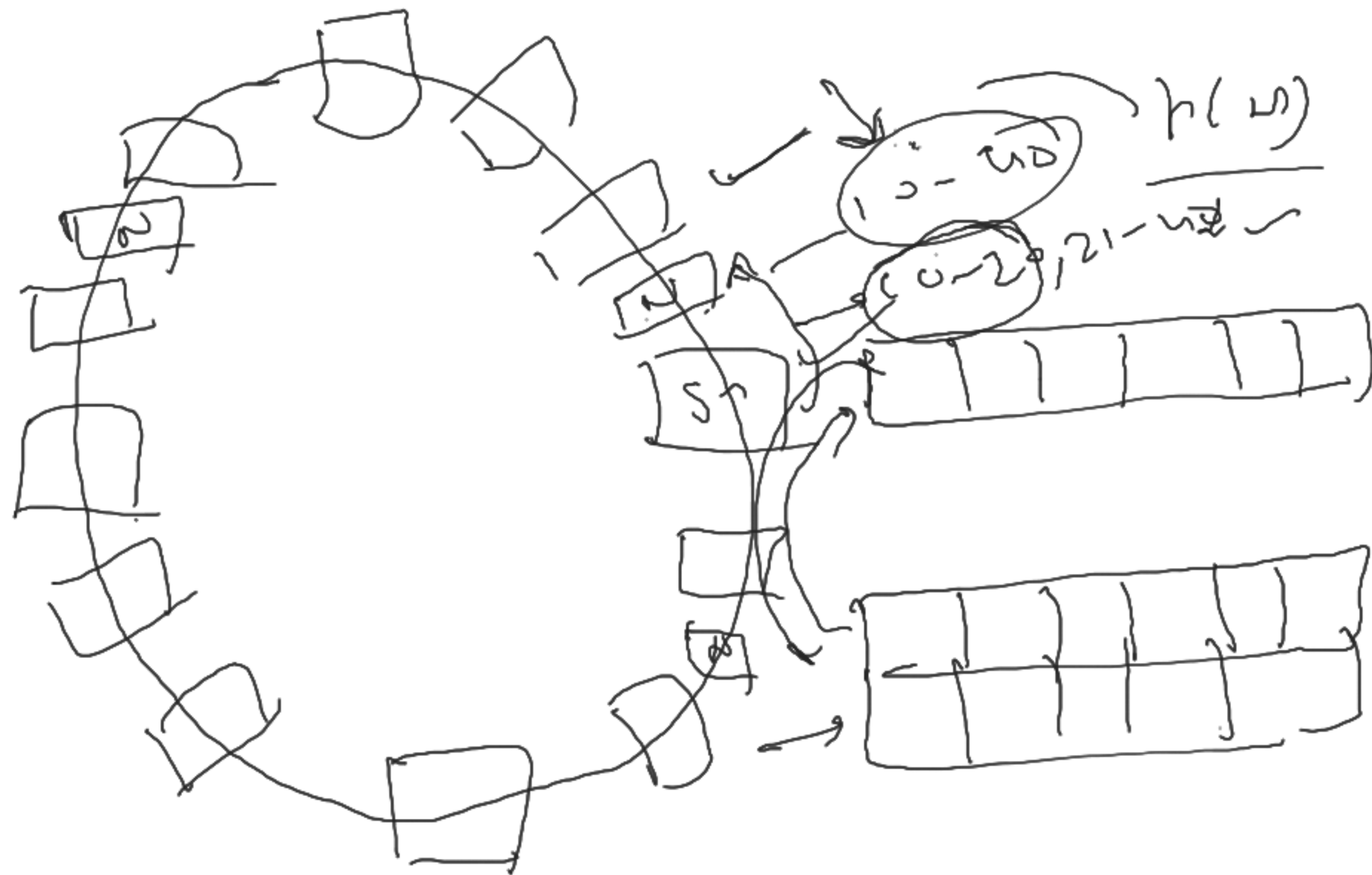


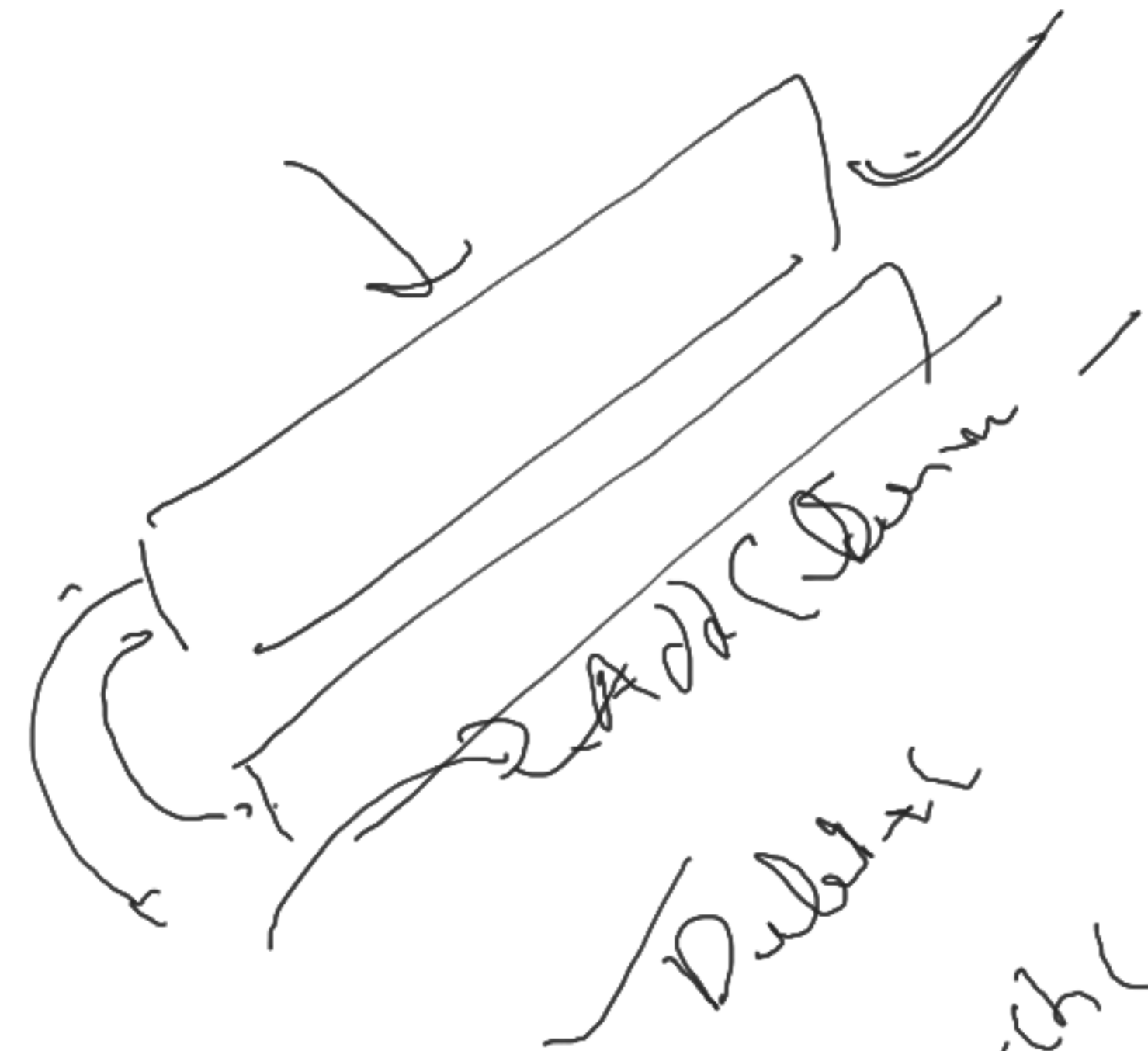


S_2 $\boxed{10-15 \mid 30-35 \mid 55-60 \mid 70-75}$

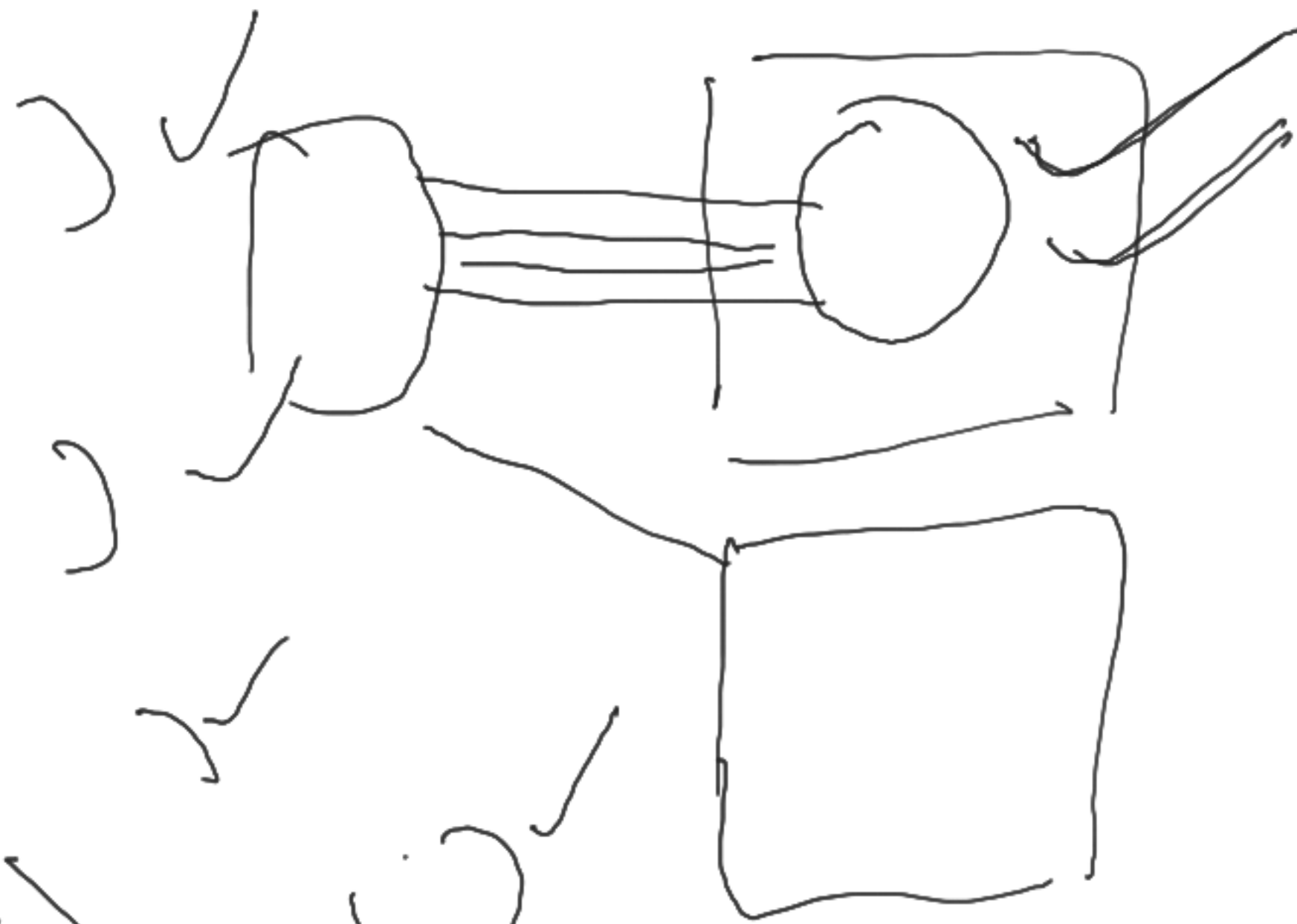


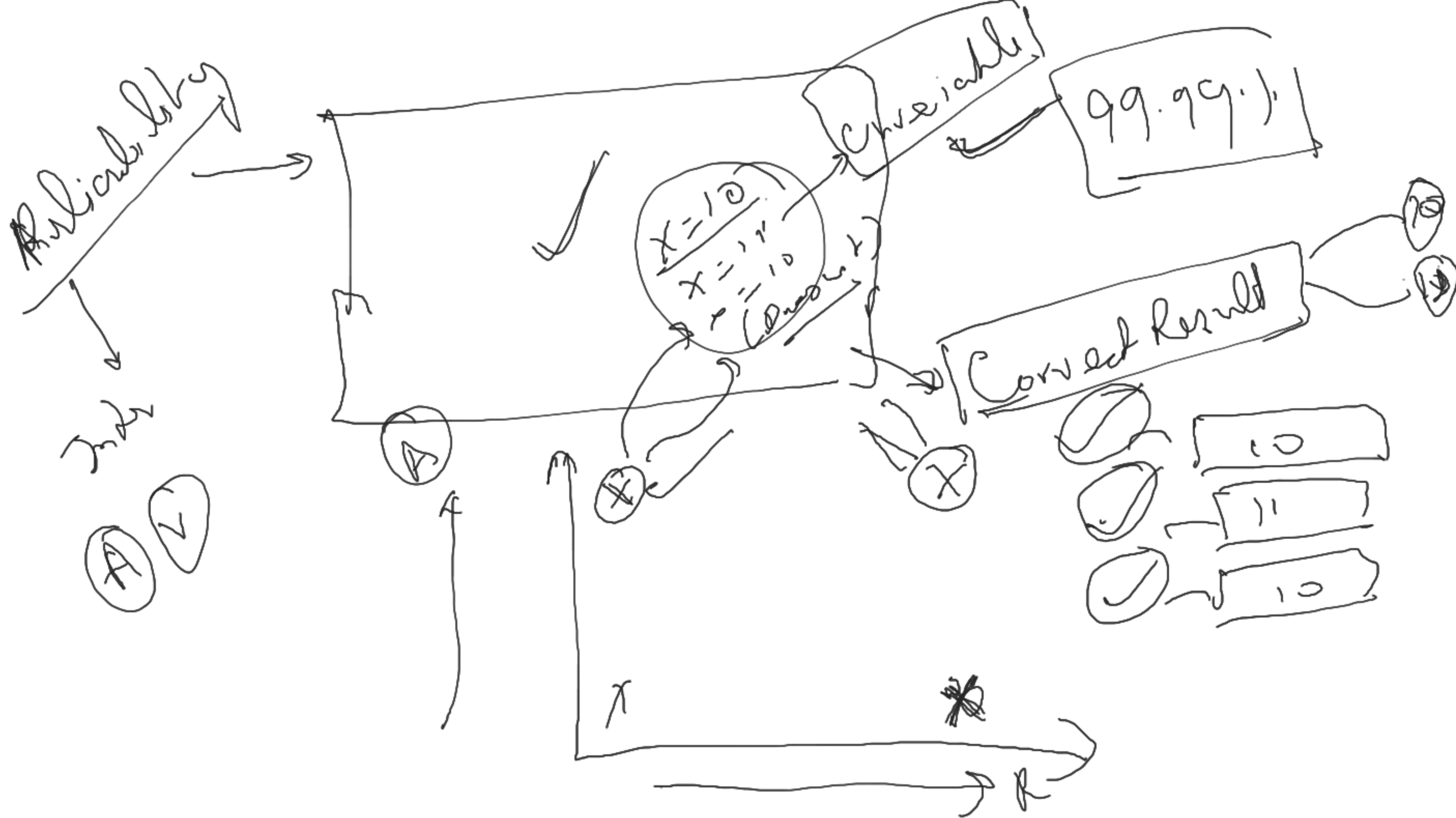
Applying the
 rules:

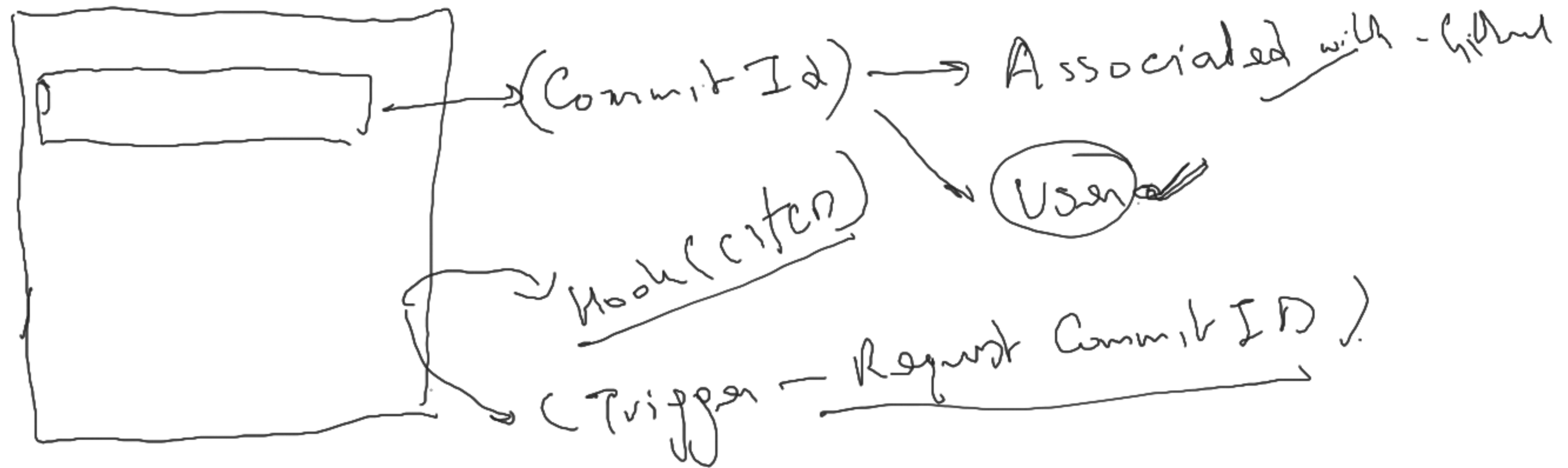


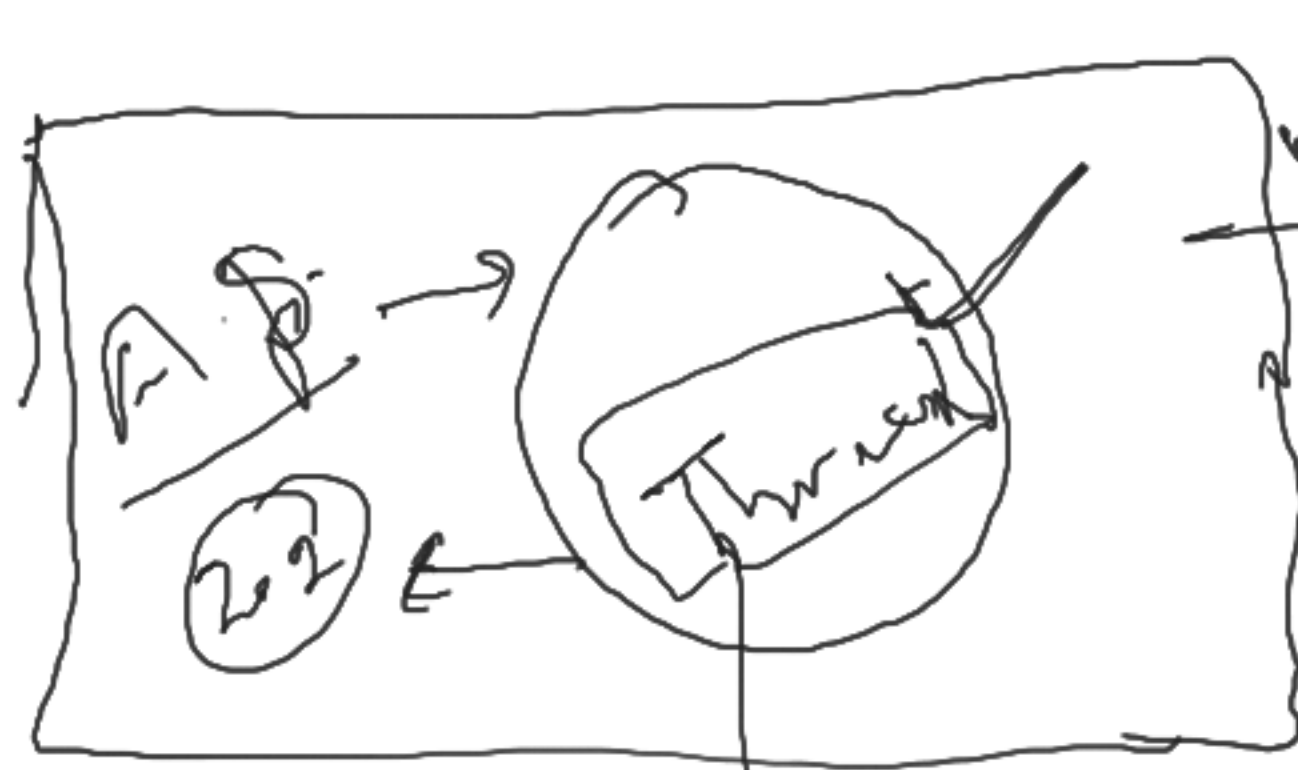


Search





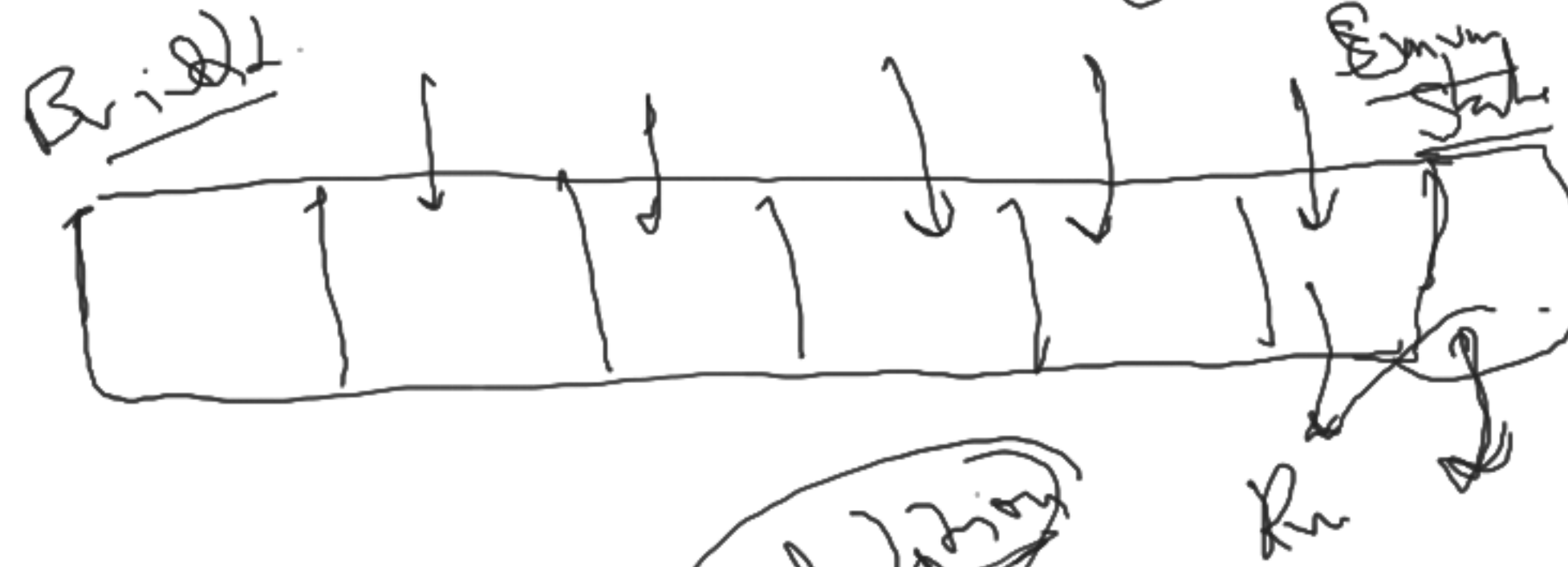




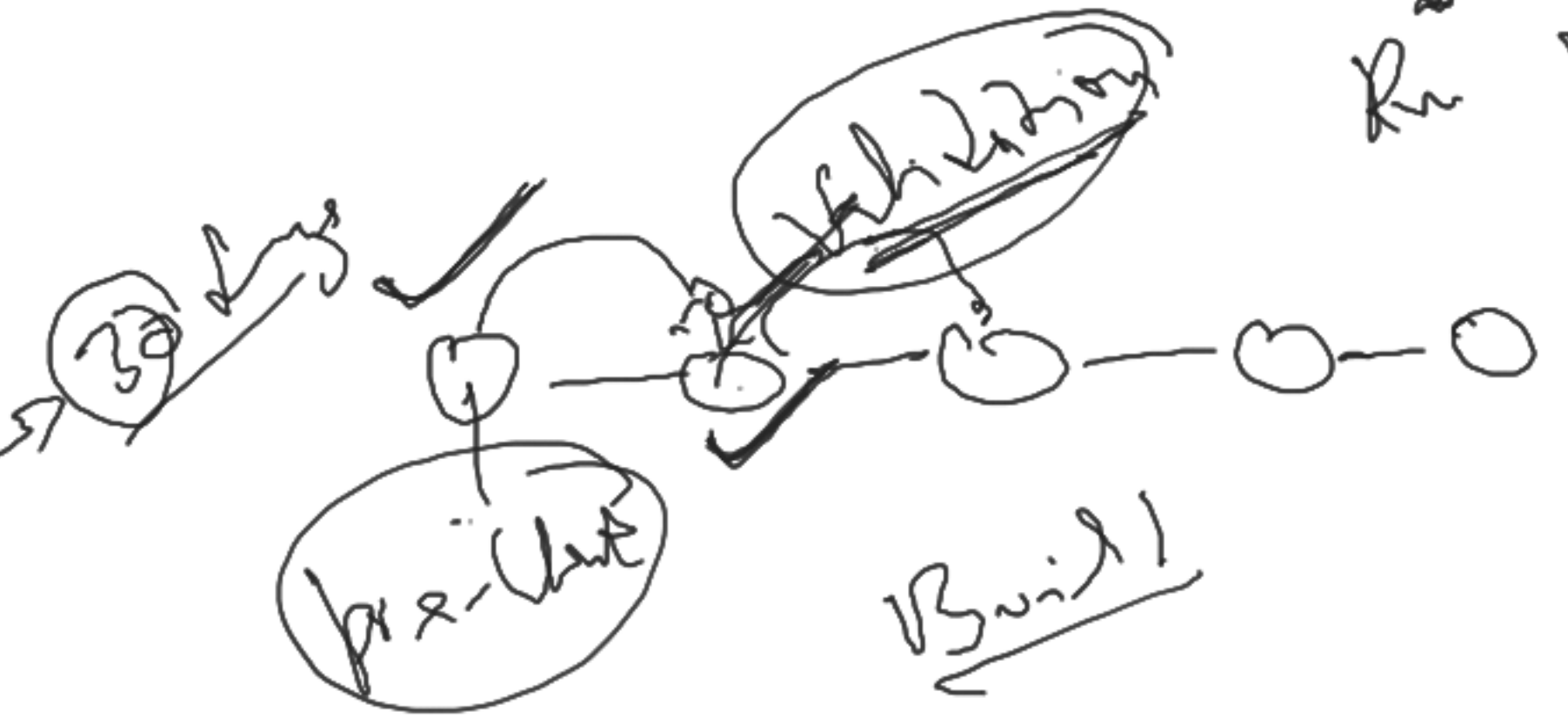
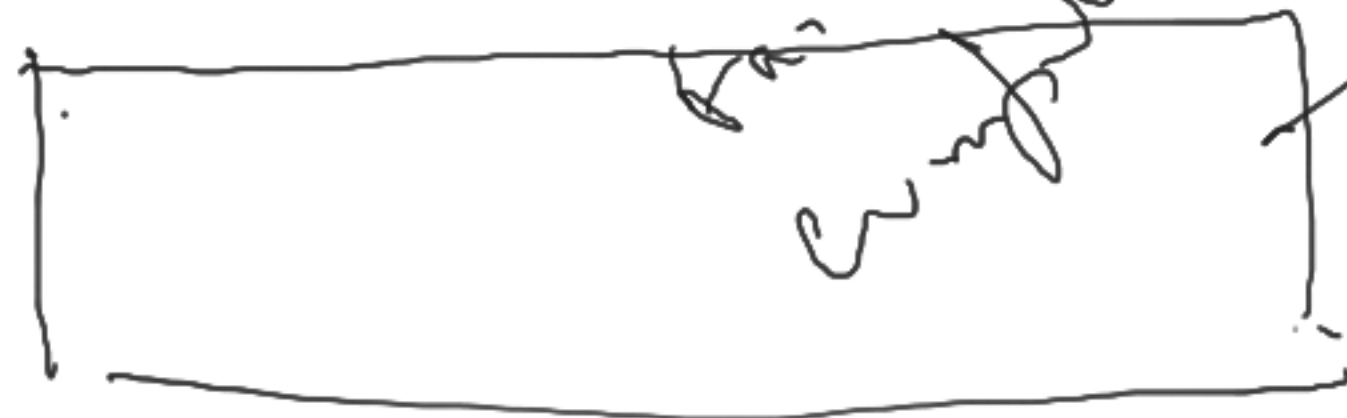
(Commit Id) {Minid, User Id}

↓

(Commit)

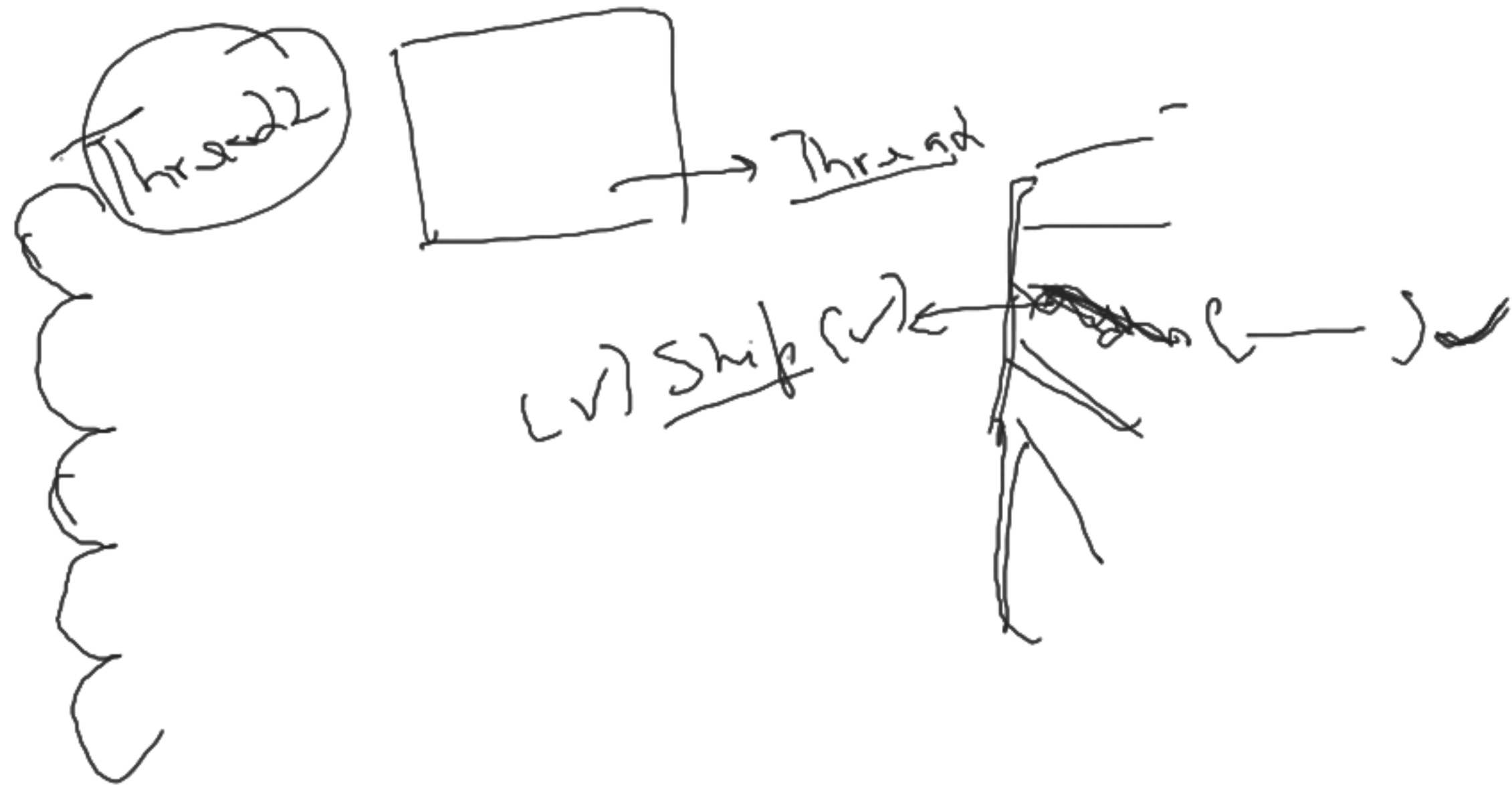


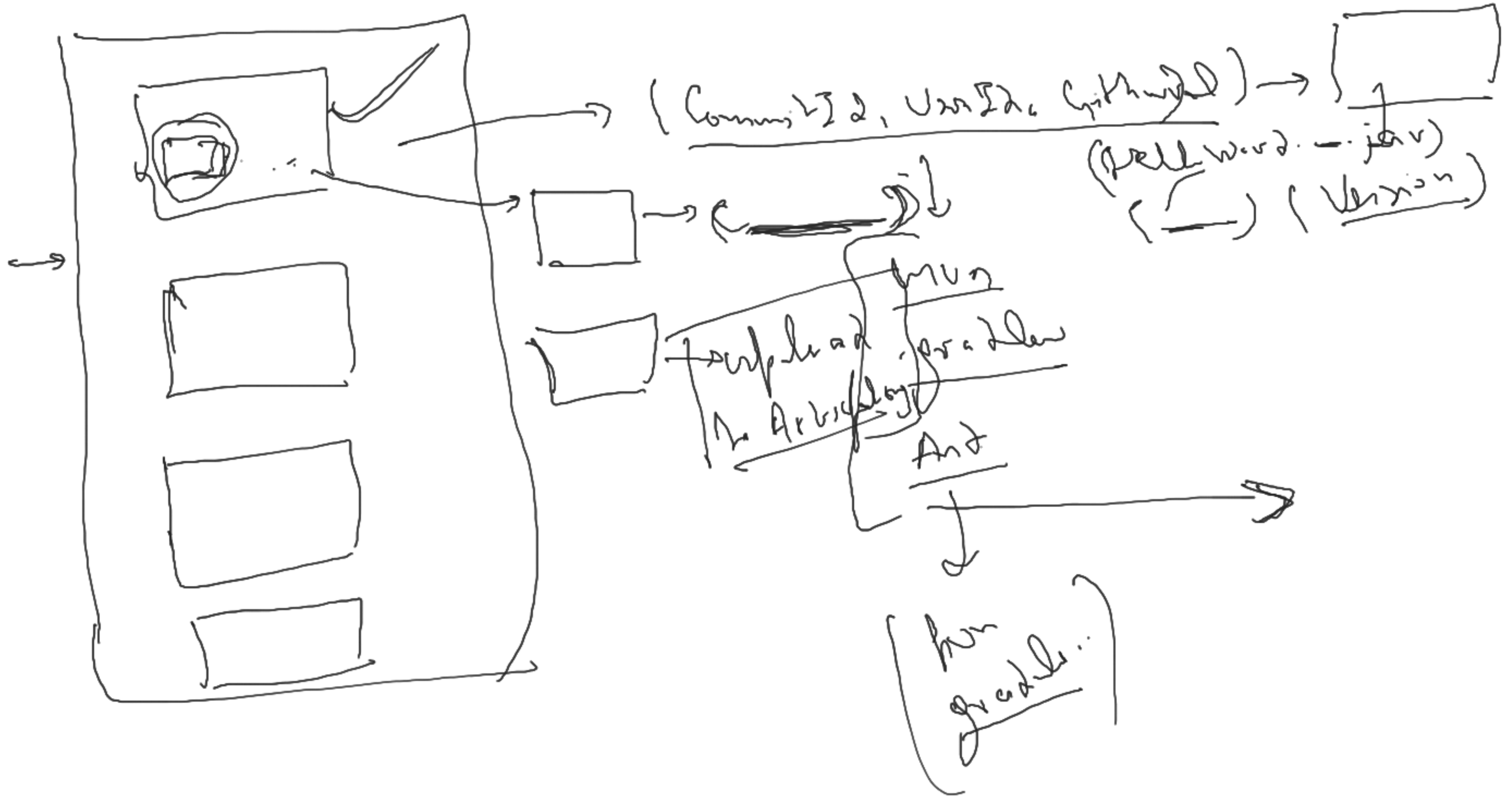
Running
(Submitted)
Running
Failed
Completed



→ open class install
→ radhw build.

- Gift Certificate







min ✓✓

