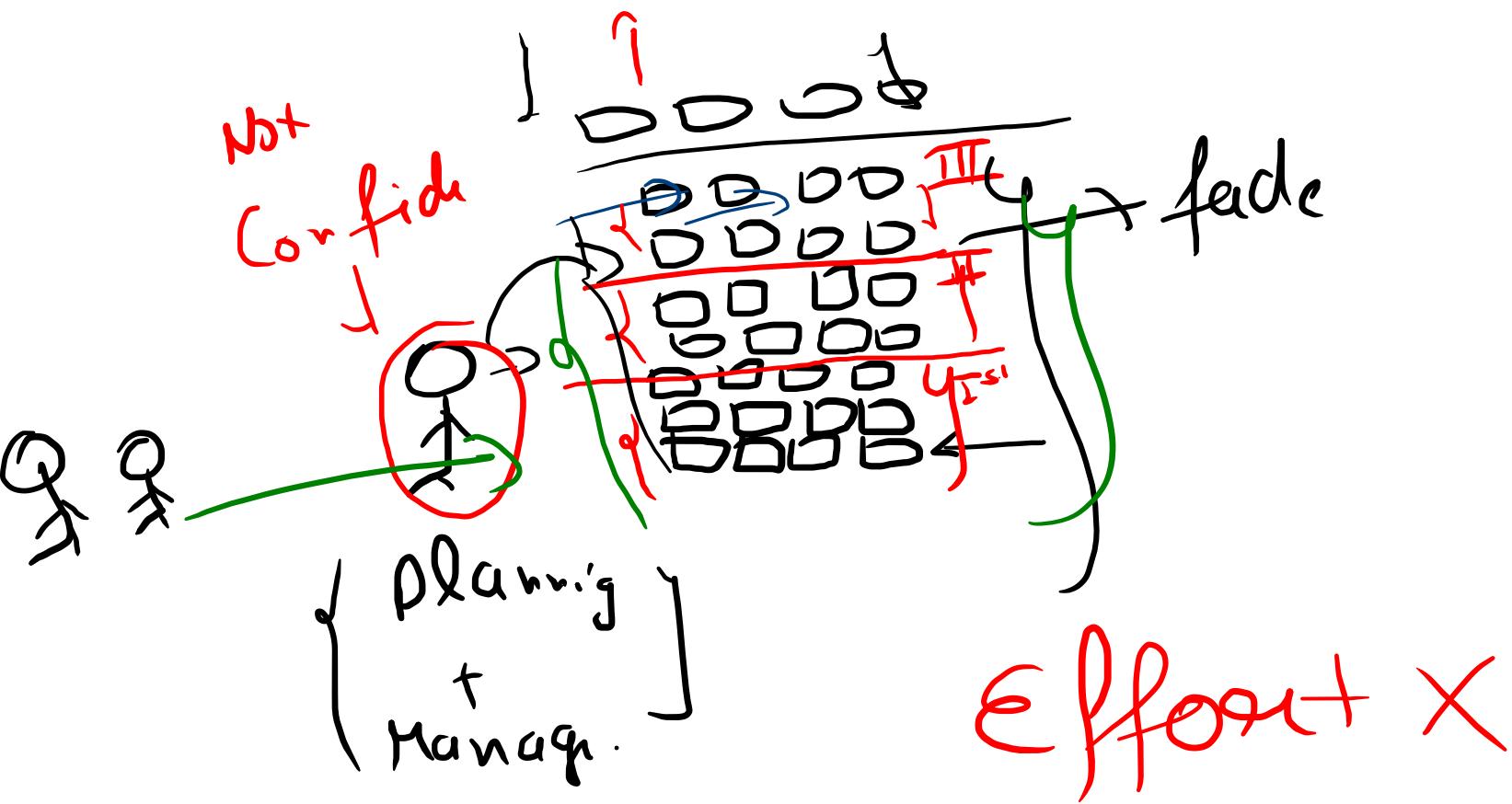


DSA -

Preparation

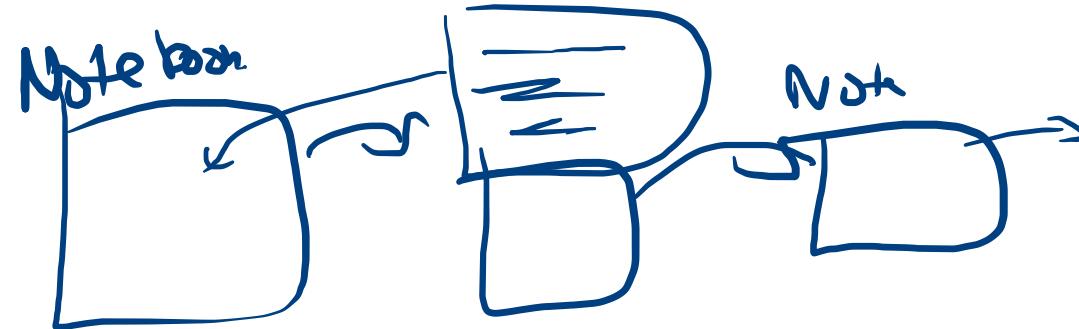
Planning  
+  
Management



{ 3 Month } [ ]

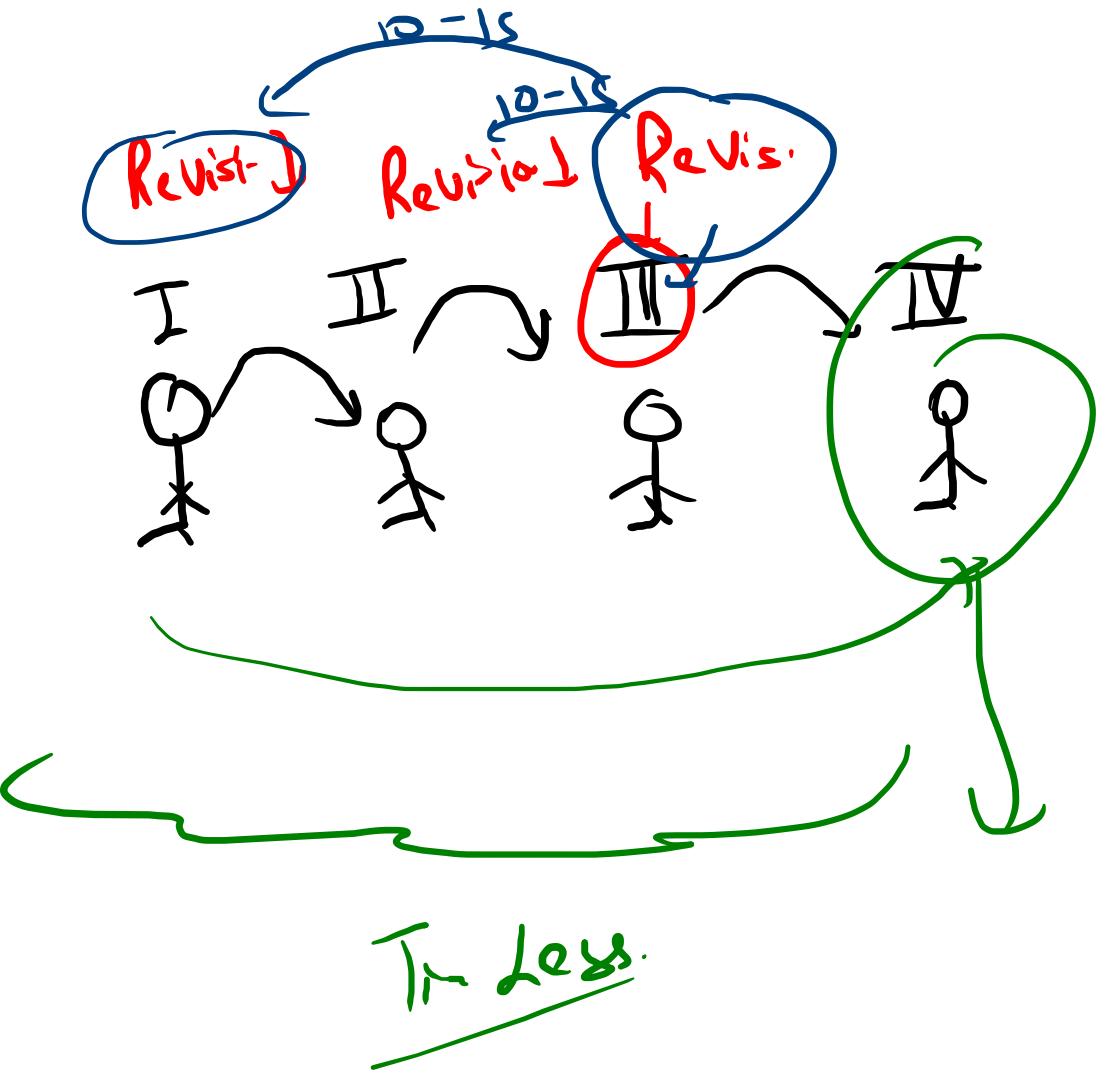
↓

Notes + Revision



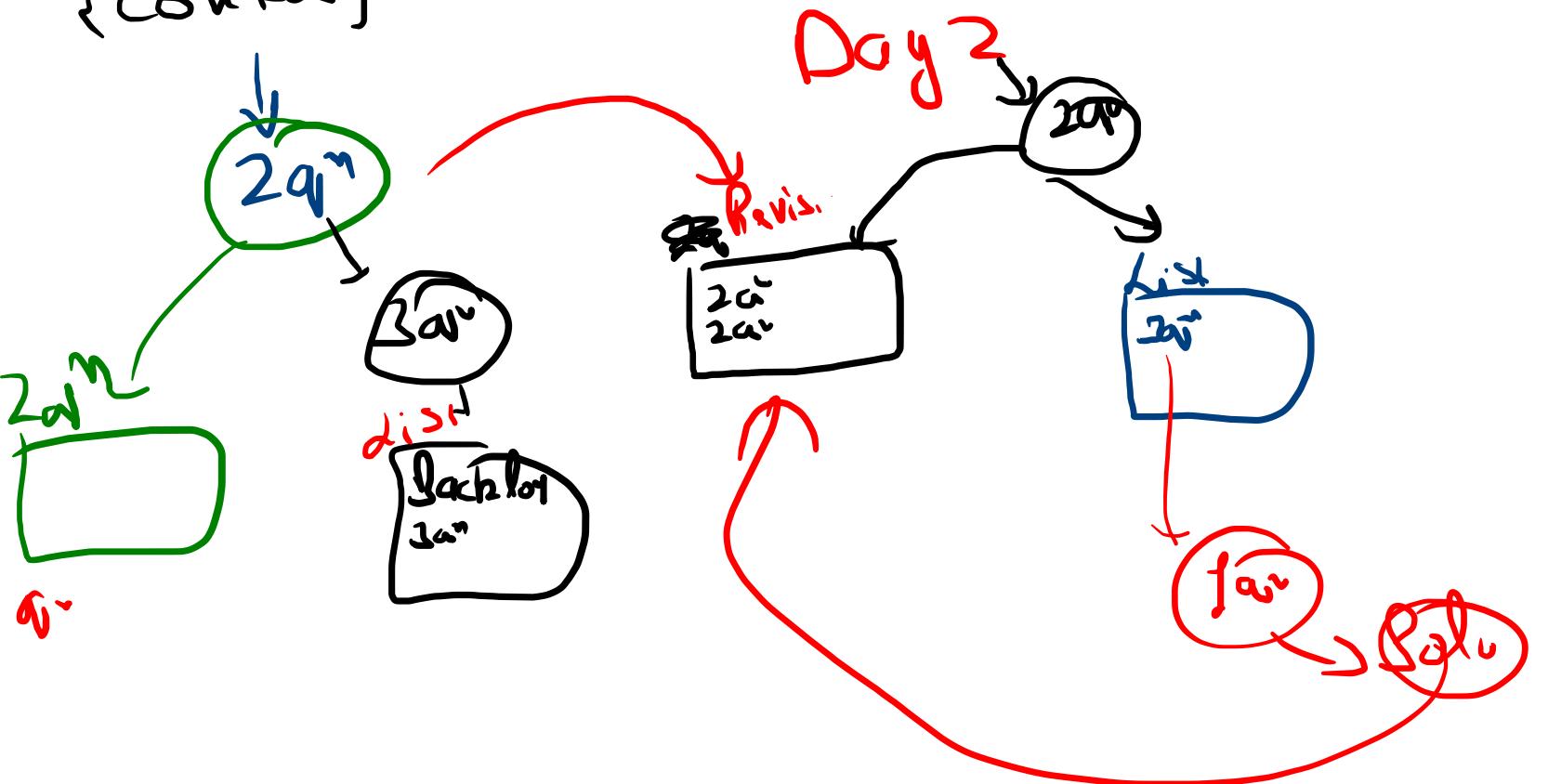
After 2 Month, Is avn. prob.





# DSA

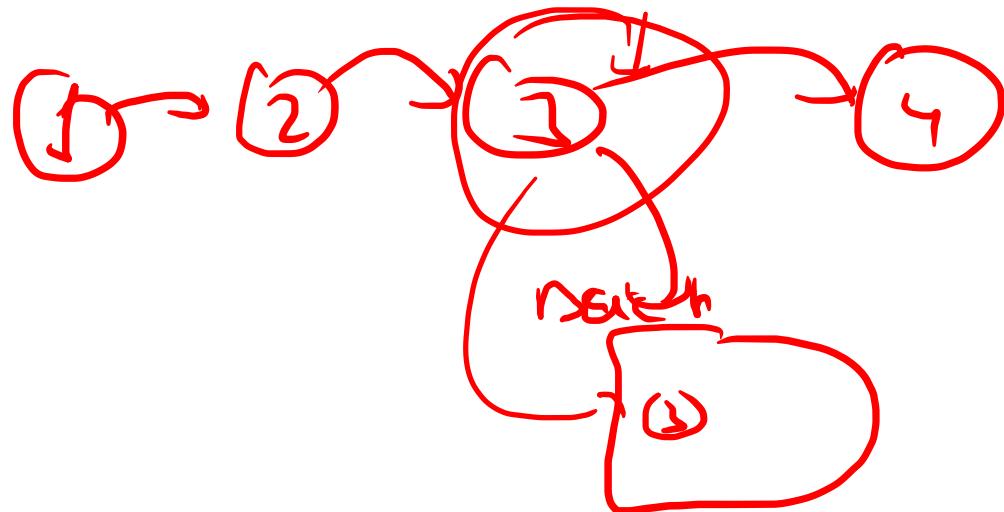
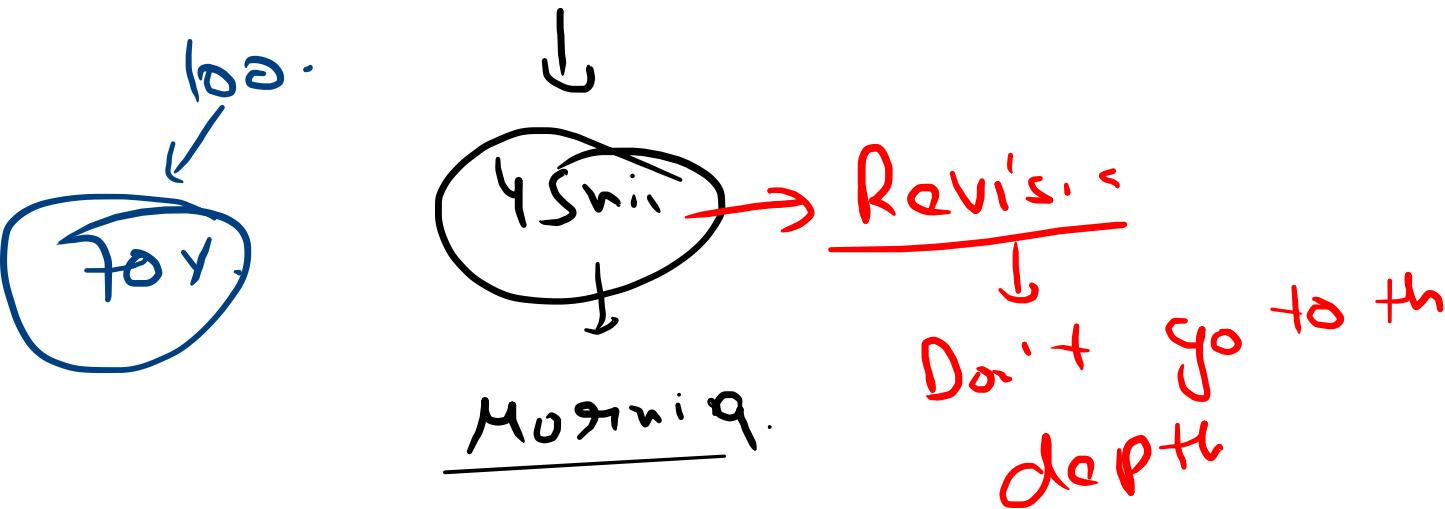
{Content}



Cod q.



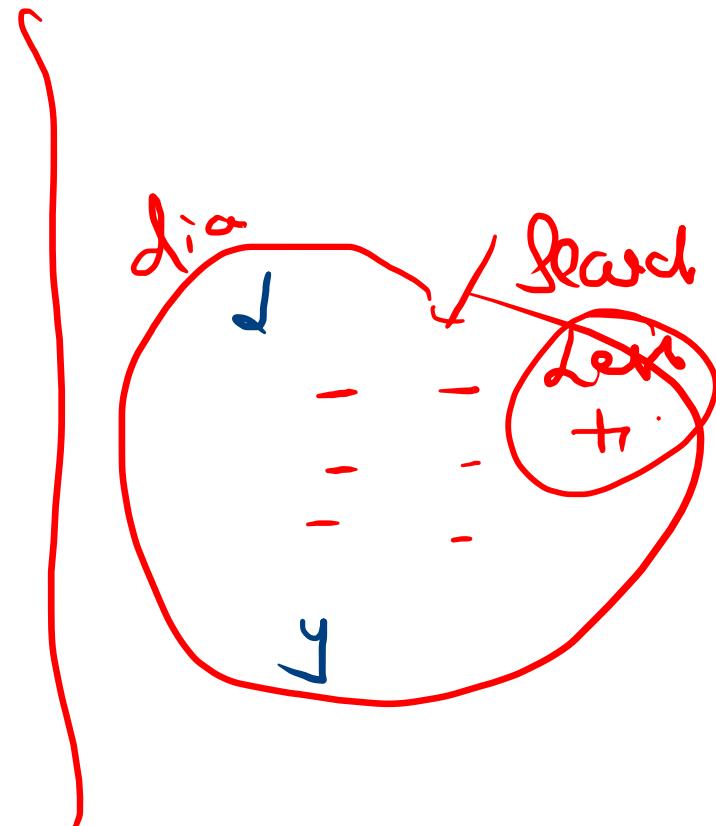
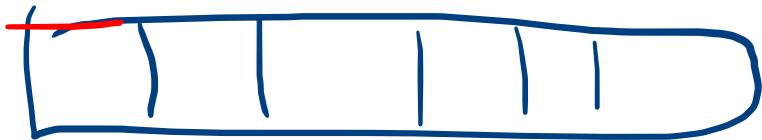
# Revisio.

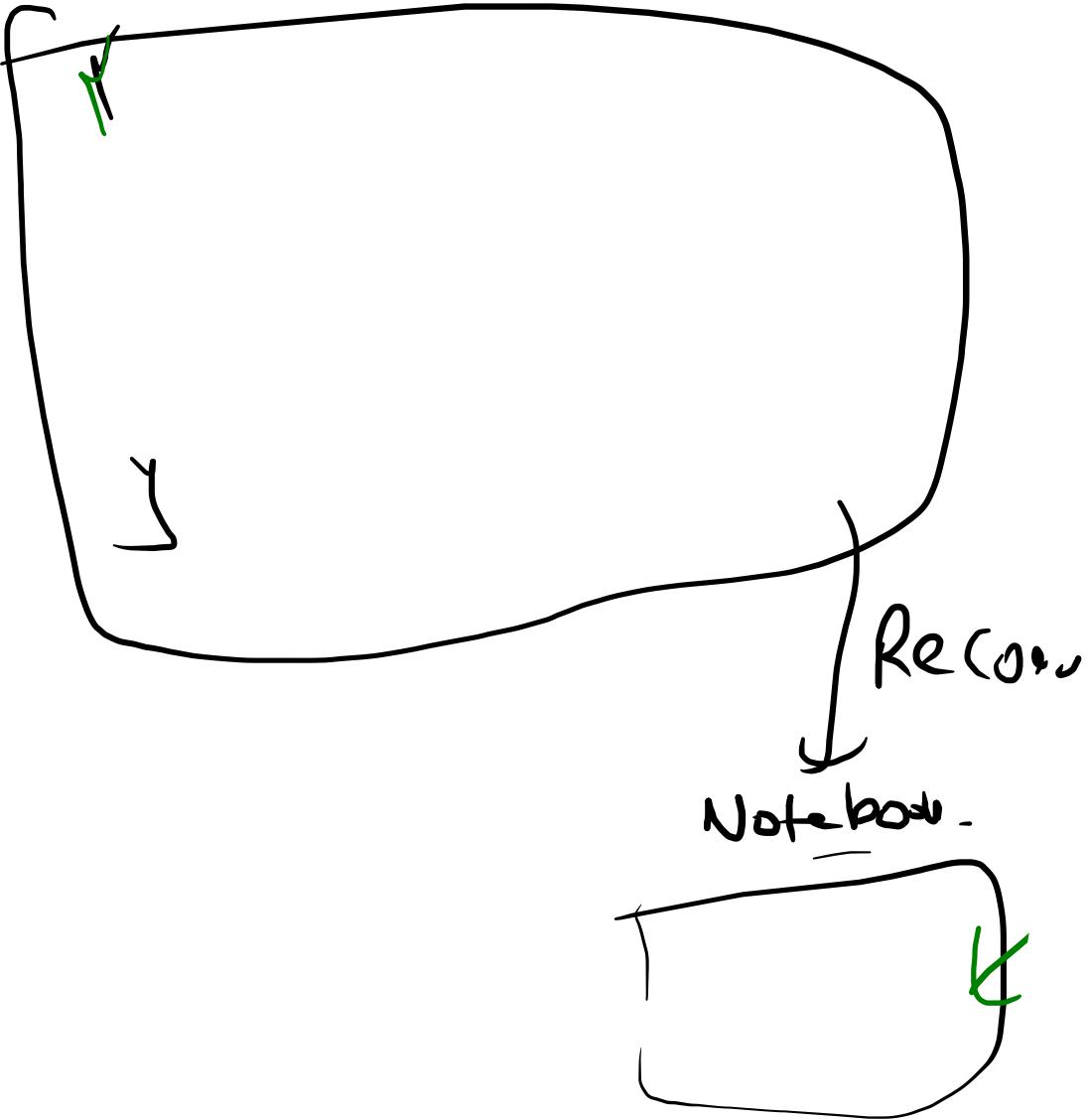


Only diff

Managing.

Note  
txt

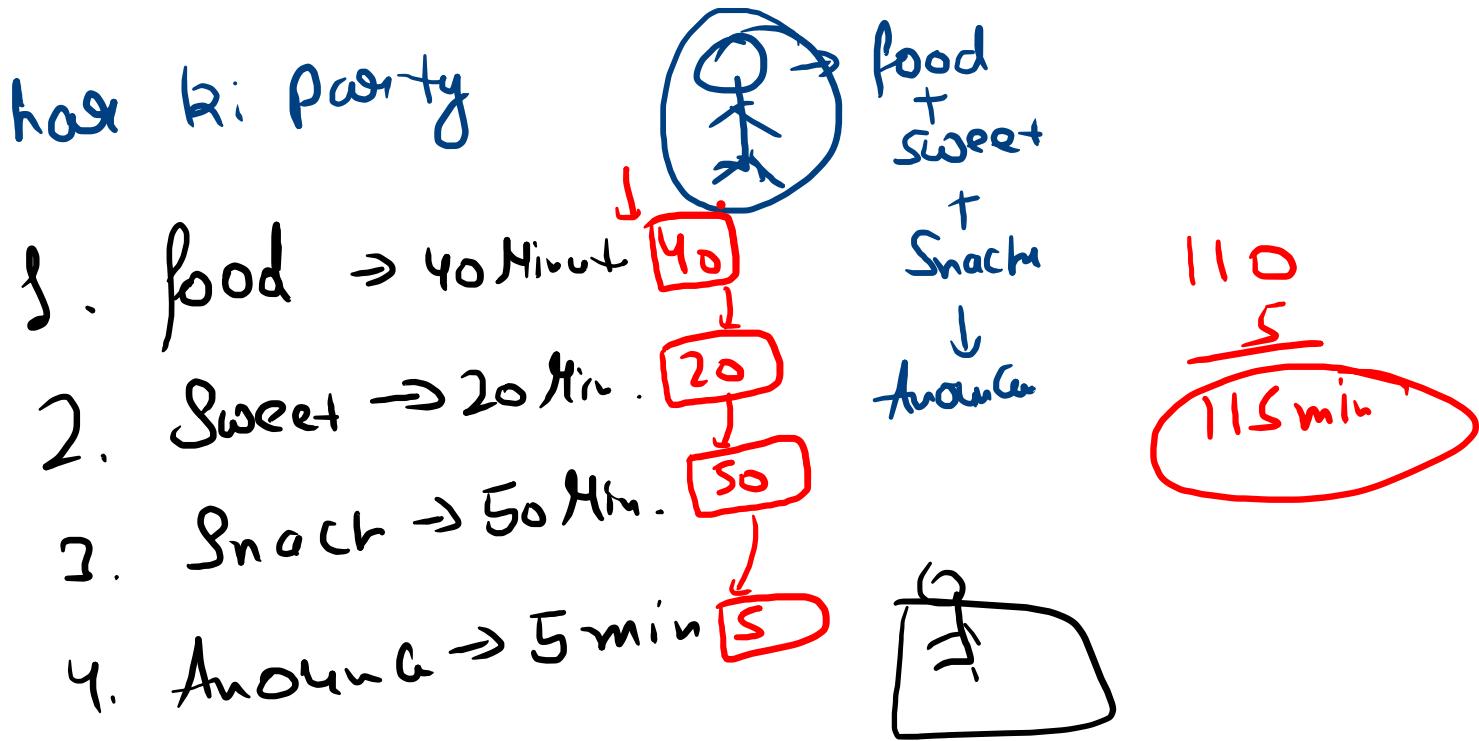


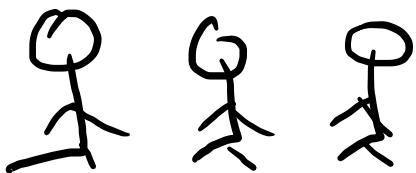


## Threads

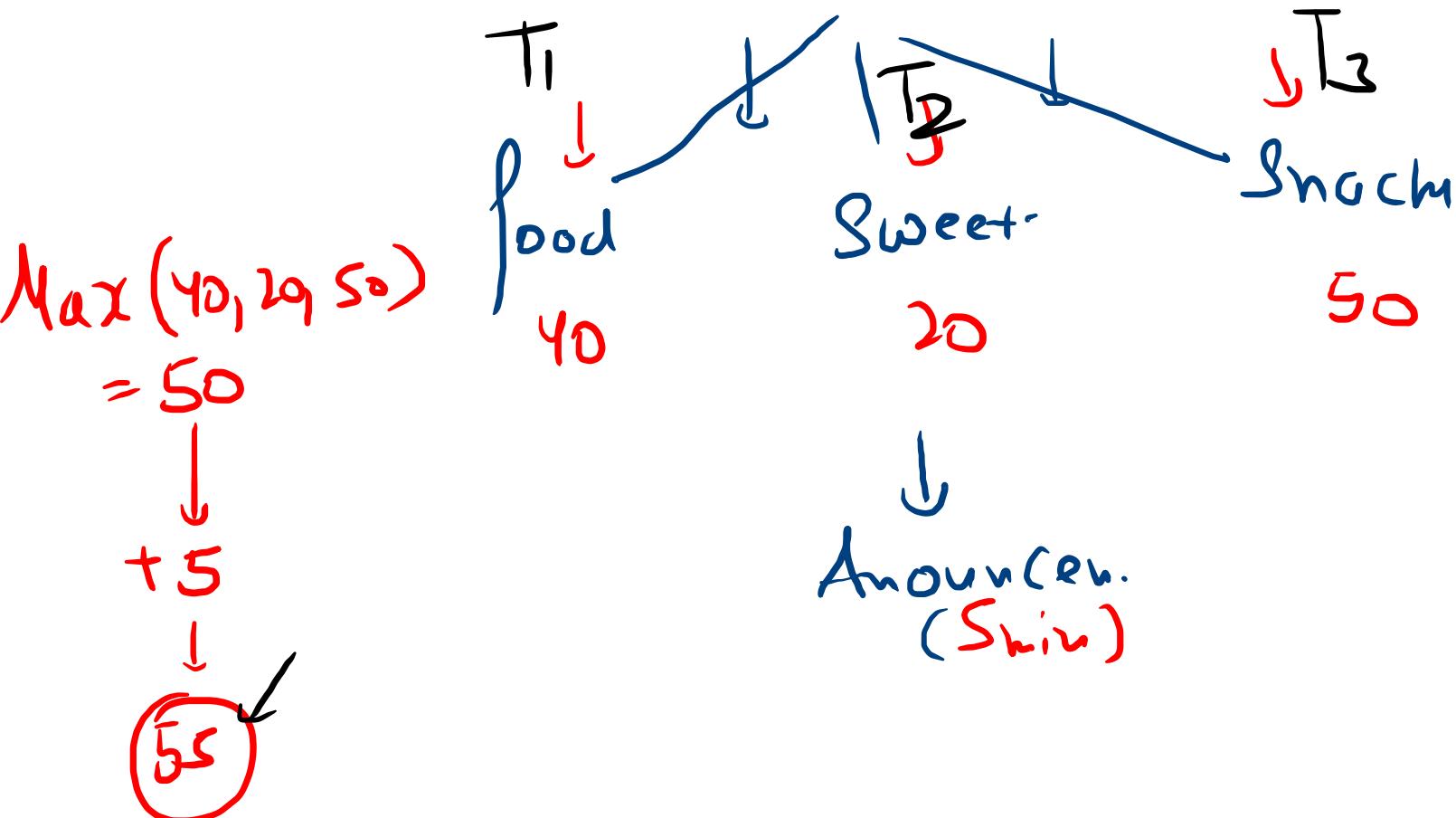
\* Threads allows java to run code in parallel

Example: Ahoor ki Party





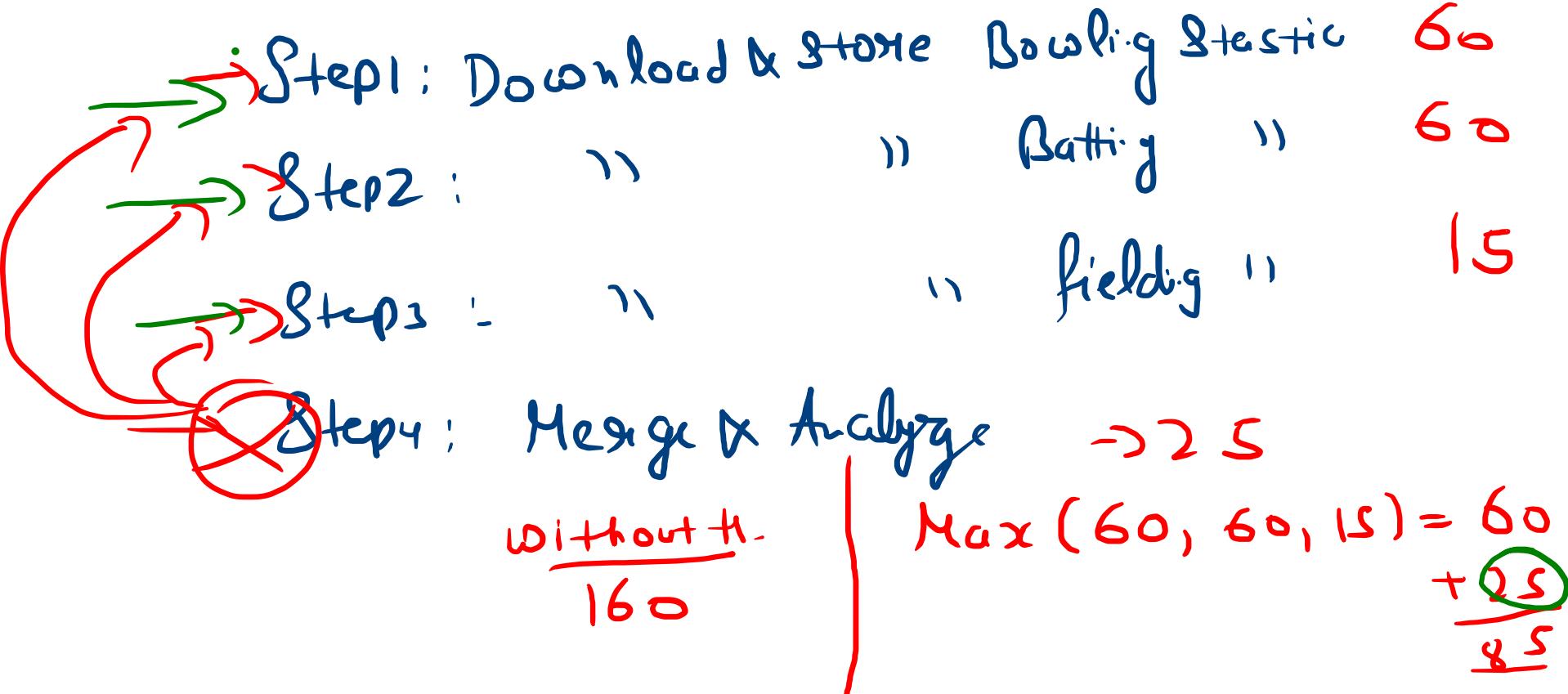
SSN!



Need of threads

→ Cricket Statistics Application

120  
40  
160

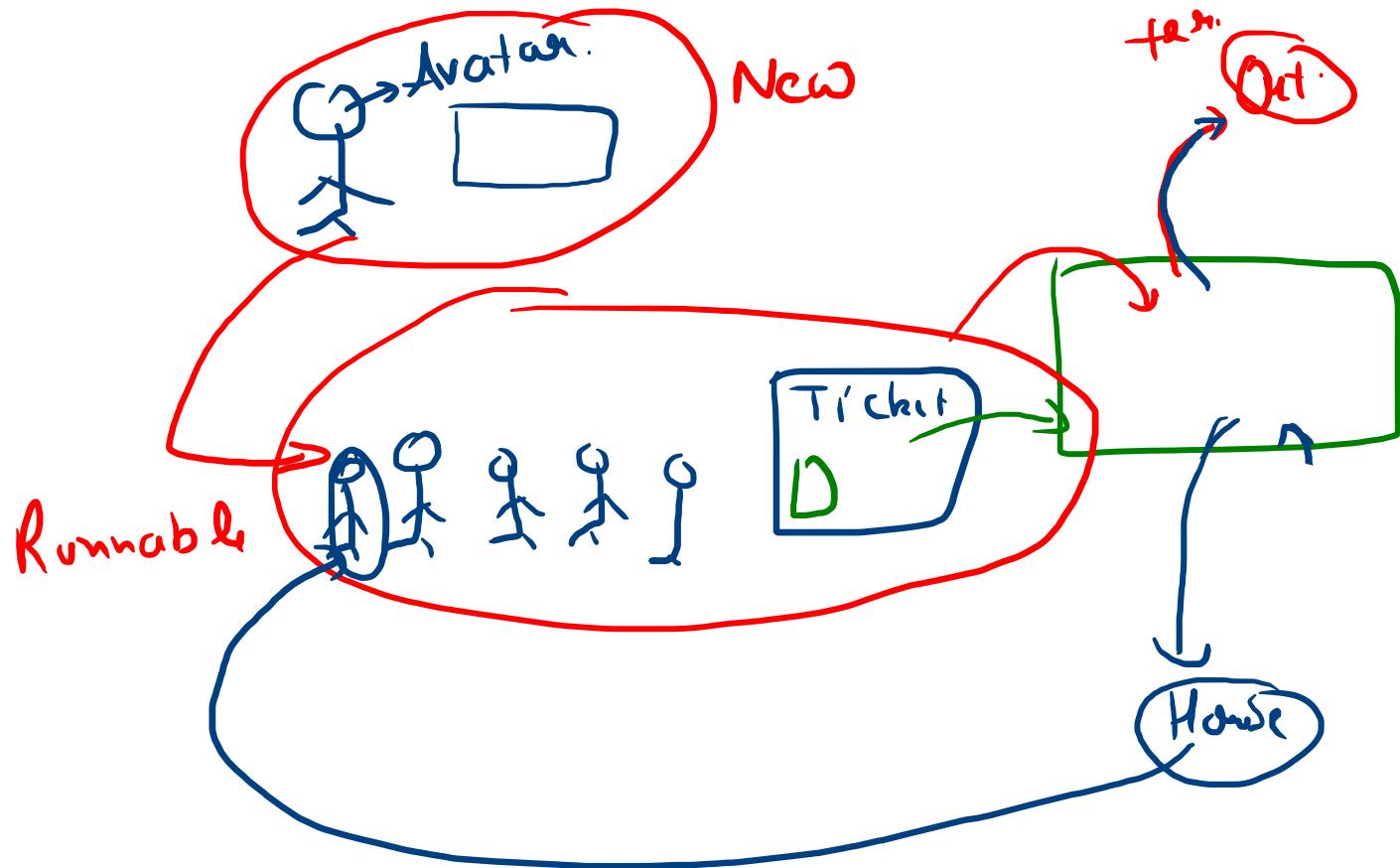


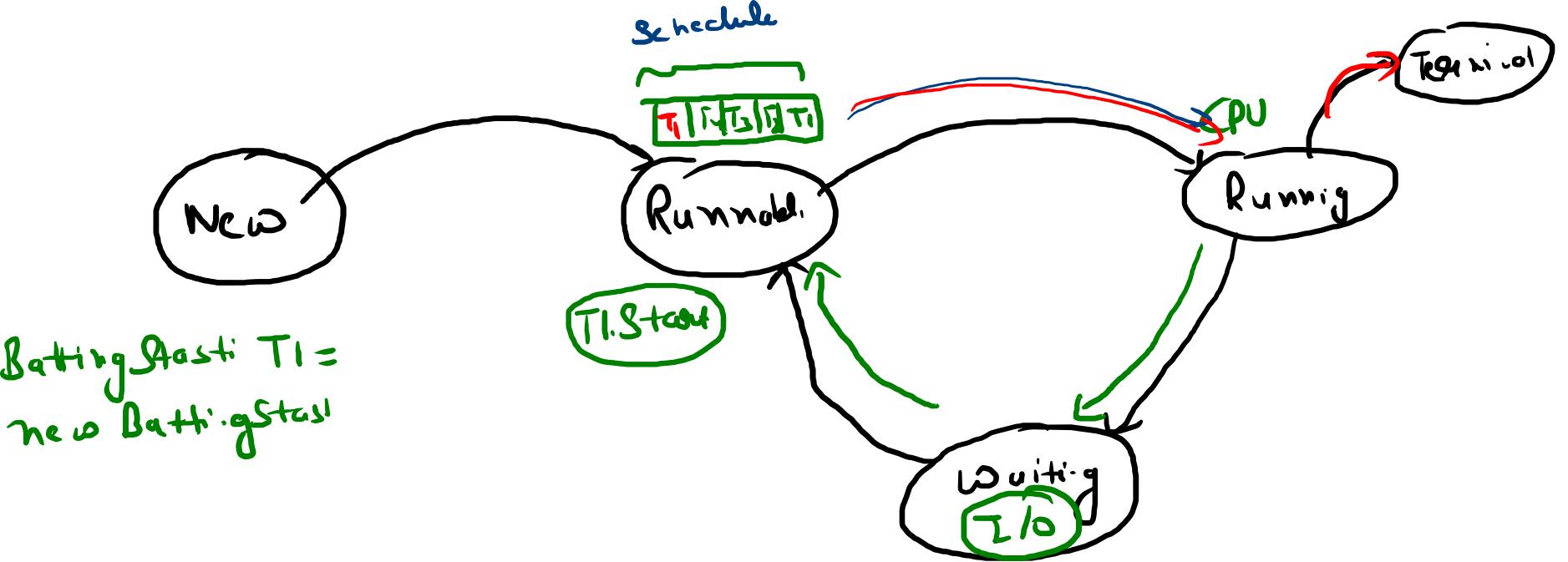
How to Create  
thread ?

1. Extending Thread class
2. Implementing Runnable Interface

1. Extending Thread Class
2. Implement Runnable Interface

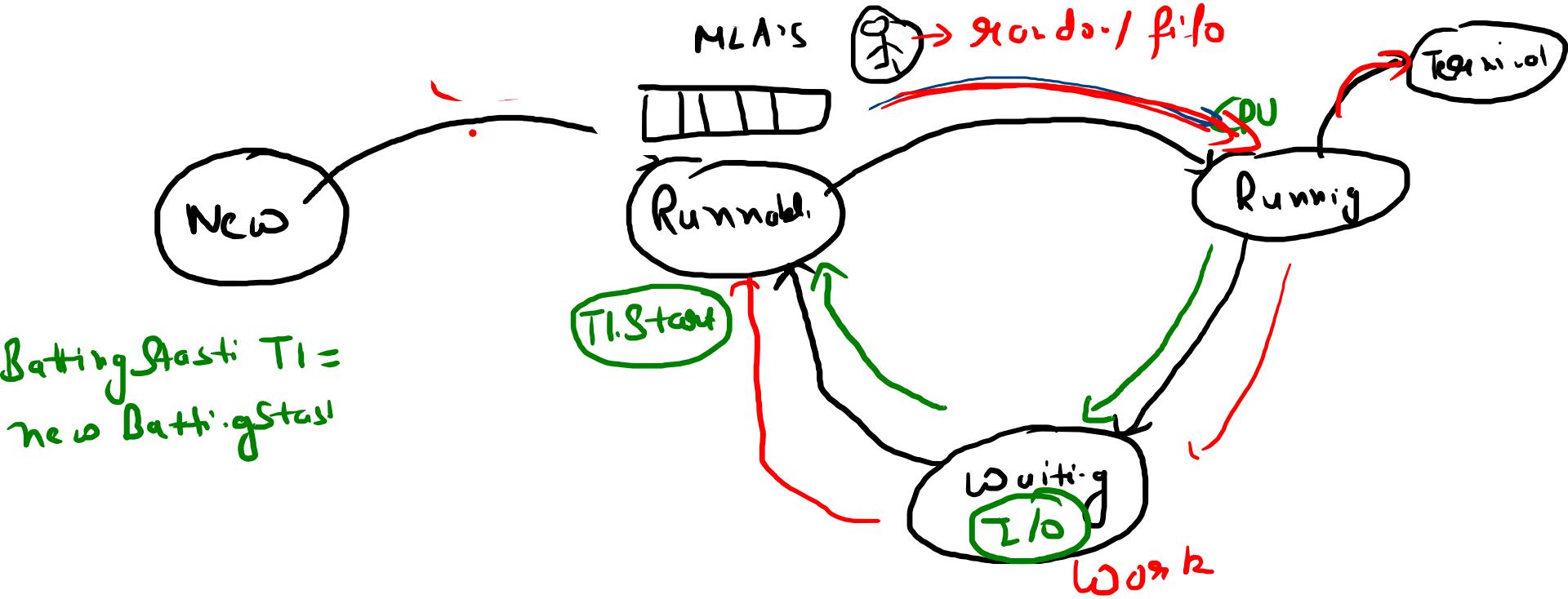
1. New ✓
2. Runnable
3. Running
4. Blocked / wait.
5. terminated





BattigStatus TI =  
new BattigStatus

$\rightarrow \text{int } i;$   
 $\rightarrow i = 2;$   
 $\rightarrow \text{Scan } sc = \text{new Scan} \dots$   
 Count  $\rightarrow x = sc.next();$   
 for the user  $\rightarrow x = x + 2;$



Battig.Stati TI =  
new Battig.Stati

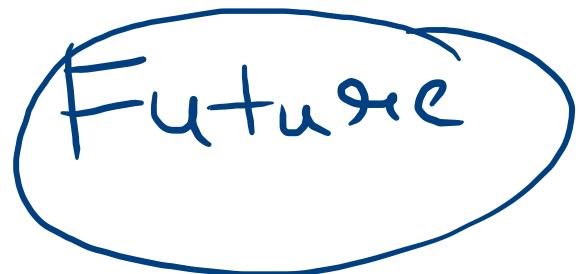
## Executor Service.

- \* new way of executing the tasks asynchronously in the back ground.

3 way -

- 1. 1 thread
  - 2. 10 Thread
  - 3. Thread + Scheduling
- $T_1 \xleftarrow{loss} T_2 \xleftarrow{loss} T_3$

Check → Execution Service task executed  
successfully.



future.get() // null



task executed  
successfully

# IN / NOT IN

4 in (7, 10, 12) X

TEST

A	B
Ran	4
mohan	7
Kajal	9

7 in (7, 10, 12) ✓

9 in (7, 10, 12) X

Mohan 7

Select \* from Test Where

(B) in (7, 10, 12);

IN / NOT IN

A	B
Ran	4
Moha	7
Rajan	9

Ran in (L, Raj, Rajan) X

Moha in (L, Raj, Raj) X

Rajan in (L, Raj, Roja)

Raja

Select A from Test Where

Raj au 9

A in ("Lakshmi", "Raju", "Rajan");

In / NOT in

Test

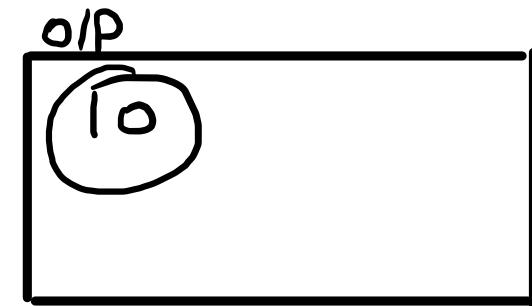
A	B
Ram	5
Rahul	10
Sita	15

Rahul 10

Ram NOT IN ("Ram", "Sita", "Bharat") X

Rahul NOT IN ("Ram", "Sita", "Bharat") ✓

Sita NOT IN ("Ram", "Sita", "Bharat") X



Select B from Test where

A NOT IN ("Ram", "Sita", "Bharat");

\* **Scheduler** allocate more CPU to thread by increasing the thread Priority.