

# Main Function

Input (N, z<sub>0</sub>, z<sub>1</sub>)

START

→ Initialise genesis block  
→ Create p2p network  
→ For each node, create a random txn & block mining event.

Init  
txn, p2p, blocks

Iteration  
Routines

Increment  
no. of  
completed  
iterations

→ Generate & capture system events using Priority Queue  
→ Update state.

Event  
Routines

Main function  
loop till  $t < T$

Check  
iterations  
completed

No

library/  
class routines

Yes

Generate and record system variables using Classes declared for txns, blocks etc.  
Update the system variables

STOP

OUTPUT

→ Store blockchain trees for each node, store the analysis for each node.  
→ Store the blockchain network.

# Blockchain Node

