## constructNetworkWlthAllNode Main.java consensusAlgo ProofOfWork.java 1. Create Nodes and join them to network. 1. New genesis block of corresponding consensus algo 2. Get genesis block. taskMap & task Queue receiveBlock Node.java 1. InvMessageTask. putTask Timer.java 1. Add block to chain. 2. InvMessageTask. mintingTask 1. Put task to task map. 2. Minting. 3. InvMessageTask. 2. Add task to task queue. 3. Send Inventation. *invMessageTask* 4. InvMessageTask. 5. InvMessageTask. 6. MiningTask. Node A Node B sendNextBlockMessage Node.java Block generation 7. InvMessageTask. 1. Node is From node, Block is current block INV 8. InvMessageTask. 2. New BlockMessageTask *GETDATA* 9. InvMessageTask. 3. Put BlockMessageTask **BLOCK** run MiningTask.java receiveMessage Node.java receiveMessage Node.java receiveMessage Node.java 1. If RecMessageTask 1. New ProfOfWorkBlock() 1. If BlockMessageTask 1. If InvMessageTask 2. Call receiveBlock() 2. Call receiveBlock() 2. Call sendNextBlockMessage 2. Put RecMessageTask 2 runTask Timer.java 1. InvMessageTask AbstractMessageTask run() 2. RecMessageTask AbstractMessageTask run() 3. BlockMessageTask AbstractMessageTask run() 3. Get all task. 4. Mining Task Mining Task run() 4. Run task. getTask Timer.java 1. Get task from task queue.