

## GROUP DETAILS::

NAME	GATORID	UFID
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ROHIT KUMAR MALIK	rkmalik	9471-1368
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RAMIYA RANJAN DASH	ramdash	5289-8889
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### 1.WHAT IS WORKING :::

- With input as number of nodes and number of requests,the message is passed through average number of hops before getting delivered to the destination node.
- The message is sent by the receiving nodes to the corresponding nodes with matching prefix values and once the maximum number of message is sent or received by the corresponding by the pastry node, It stops propagating message.

The sample output for

number of nodes = 1000

number of requests = 10

- Considering arg0 is numNodes, arg1 is numRequests

Pastry node with nodeID b261b740 receives the message number 3 and number of hops is 0

Pastry node with nodeID 80fcb043 receives the message number 9 and number of hops is 2

Pastry node with nodeID dd97b6c3 receives the message number 10 and number of hops is 2

Pastry node with nodeID 90961ee2 receives the message number 2 and number of hops is 1

Pastry node with nodeID 2f34b995 receives the message number 10 and number of hops is 0

Pastry node with nodeID 5b1a02d8 receives the message number 1 and number of hops is 0

Pastry node with nodeID 5b1a02d8 receives the message number 6 and number of hops is 1

Pastry node with nodeID bed9c3c9 receives the message number 10 and number of hops is 2

Pastry node with nodeID c2e71e47 receives the message number 10 and number of hops is 1

Pastry node with nodeID b0229c1c receives the message number 1 and number of hops is 1

Pastry node with nodeID 3f90a337 receives the message number 5 and number of hops is 2

Pastry node with nodeID 89a01966 receives the message number 9 and number of hops is 2

Pastry node with nodeID 3f32e4aa receives the message number 3 and number of hops is 2

Pastry node with nodeID 9dc52a44 receives the message number 8 and number of hops is 2

Pastry node with nodeID 91b82cac receives the message number 8 and number of hops is 3

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Pastry node with nodeID 7c7fa89b receives the message number 1 and number of hops is 1

1

Pastry node with nodeID 346132c3 receives the message number 3 and number of hops is 2

Pastry node with nodeID 346132c3 receives the message number 4 and number of hops is 3

Pastry node with nodeID 49d879d1 receives the message number 7 and number of hops is 2

Pastry node with nodeID a5317c66 receives the message number 2 and number of hops is 2

Pastry node with nodeID a4ffb529 receives the message number 10 and number of hops is 1

Pastry node with nodeID a4ffb529 receives the message number 6 and number of hops is 1

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Pastry node with nodeID 83cf502f receives the message number 10 and number of hops is 3

Pastry node with nodeID e003b2de receives the message number 4 and number of hops is 3

Pastry node with nodeID 907dca98 receives the message number 1 and number of hops is 3

Pastry node with nodeID 907dca98 receives the message number 10 and number of hops is 3

Pastry node with nodeID 706be659 receives the message number 9 and number of hops is 3

Pastry node with nodeID 6015dedd receives the message number 5 and number of hops is 2

996

997

998

999

1000

Average hop for the pastry network is :2.5177

- The maximum number of nodes and requests tested was 25000 and 10 respectively.