

Project 3 Bonus Report

Team Members:

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Failure Model:

In the failure model, we have included a 3rd parameter denoting the number of nodes that will die permanently.

To Run the Code:

```
./project3_bonus numNodes numRequests failureNodes
```

Results:

No. of Nodes	Requests	Failure Nodes	Avg. Hops for no failure	Avg. Hops with failure
10	10	1	0	0.11
10	10	2	0	0.17
20	10	2	0	0.14
30	10	3	0	0.50
40	10	3	0.2	0.52
50	10	5	0.34	0.73
100	10	5	0.88	1.20
200	10	10	1.31	1.61
300	10	20	1.52	1.83
300	10	30	1.52	1.85
400	10	30	1.71	2.06
400	10	40	1.71	2.17
500	10	40	1.90	2.25
500	10	50	1.90	2.28
1000	10	50	2.05	2.33
1000	10	100	2.05	2.54