6.824 Spring 2015 Paper Questions

For each paper, your assignment is two-fold. By 10PM the evening before lecture:

- Submit your answer for each lecture's paper question via the submission web site, and
- Submit your own question about the paper (e.g., what you find most confusing about the paper or the paper's general context/problem). You cannot use the question below. To the extent possible, during lecture we will try to answer questions submitted the evening before.

You can also upload your questions and answers using curl:

```
## Answer goes into lecN.txt
$ curl -F file=@lec2.txt \
       -F key=XXXXXXXX \
       http://6824.scripts.mit.edu/submit/handin.py/upload
## Question goes into sqN.txt
$ curl -F file=@sq2.txt \
       -F key=XXXXXXXX \
       http://6824.scripts.mit.edu/submit/handin.py/upload
```

Lecture 22

Kademlia: A Peer-to-peer Information System Based on the XOR Metric
Consider a Kademlia-based key-value store with a million users, with non-mutable keys: once a key is published, it will not be modified. The k/v store experiences a network partition into two roughly equal partitions A and B for 1.5 hours.

X is a very popular key. Would nodes in both A and B likely be able to access X's value (1) during the partition? (2) 10 minutes after the network is joined? (3) 25 hours after the network is joined?

(optional) Would your answer change if X was an un-popular key?

Questions or comments regarding 6.824? Send e-mail to 6.824-staff@pdos.csail.mit.edu.

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