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 5

Paxos Made Simple Suppose that the acceptors are A, B, and C. A and B are also proposers. How does Paxos ensure that the following sequence of events can't happen? What actually happens, and which value is ultimately chosen?

1. A sends prepare requests with proposal number 1, and gets responses from A, B, and C.
2. A sends `accept(1, "foo")` to A and C and gets responses from both. Because a majority accepted, A thinks that `"foo"` has been chosen. However, A crashes before sending an `accept` to B.
3. B sends prepare messages with proposal number 2, and gets responses from B and C.
4. B sends `accept(2, "bar")` messages to B and C and gets responses from both, so B thinks that `"bar"` has been chosen.

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

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