Data Intensive Computing - Review Questions 1

Deadline: September 4, 2020

1. **1 point.** Explain how a file region can be left in an inconsistent state in GFS?

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2. **1 point.** Briefly explain what are the differences between GFS and DFS?

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3. **1 point.** Show with an example that in the CAP theorem, we can have only two properties out of Consistency, Availability, and Partition Tolerance at the same time.

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4. **1 point.** How does BigTable provide strong consistency?

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5. **1 point.** Write a simple query in Cypher for each of the following requests:

   - Match a Person called "John Doe"
   - Find FRIENDS_OF "John Doe"
   - Count "John Doe"'s direct acquaintances