UCL Department of Computer Science
CS M038/GZ06: Mobile and Cloud Computing
2011–2012, Term 2
Kyle Jamieson and Brad Karp

One-pager: BigTable: A Distributed Storage System for Structured Data (Chang, et al., 2011)
Due: Start of lecture, 13th March 2012

Instructions: ***in your own words,*** *answer the following questions as* ***succinctly*** *as possible (in 200–500 words total, but shorter answers within this range are encouraged). Quoting figures or text from the assigned reading or from any other source is specifically prohibited.*

The authors comment that if "...the client's cache is stale, the location algorithm could take up to six round-trips, because stale cache entries are only discovered upon misses..." Explain this assertion by listing the sequence of object reads (and the contents of the corresponding server responses) a client whose cache entries are all stale would make when reading a tablet.