UCL Department of Computer Science
CS M038/GZ06: Mobile and Cloud Computing
Spring 2013
Kyle Jamieson and Brad Karp

One-pager: SPORC (Feldman *et al.*, 2010)　　　　　**Due: Start of lecture, 13th March 2013**

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.*

SPORC uses operational transformation (OT) to resolve conflicts between concurrent operations by multiple clients. Consider the simple transformation function $T(op_1, op_2)$ for single-character text deletions defined in Section 2.2 of the paper. When a SPORC client resolves any conflicts between a committed delete operation that it receives from the server and its own committed history and pending queue, can conflict resolution ever cause a delete operation in the pending queue to be transformed into a no-op? If so, give an example where this result may occur. If not, explain why it can never occur.