UCL Department of Computer Science
CS M038/GZ06: Mobile and Cloud Computing
2011–2012, Term 2
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One-pager: GPSR (Karp and Kung, 2000) **Due: Start of lecture, 17th January 2012**

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

Suppose you compared two versions of GPSR: one that uses the GG planarization when forwarding in perimeter mode, and another that uses the RNG planarization when forwarding in perimeter mode. On paths where perimeter-mode forwarding must be invoked, which planarization would on average yield shorter paths in hop count: the GG planarization or the RNG planarization? Justify your answer by explaining exactly what about the two planarizations' definitions is responsible for this difference, and why.