

15-210 Assignment 01

Karan Sikka
ksikka@cmu.edu
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1: Task 2.6

The worst case for $|P|$ is in $O(|V|)$. An example graph would be one where a vertex maps onto $|V| - 2$ vertices, and each of those connects to another vertex. $|P|$ in this case is $|V| - 2$, which is $O(|V|)$.