CS583 Spring 2009	
Quiz 06 Mar.25.09	Name:

Show all work clearly and in order. Justify your answers whenever possible; You have 30 minutes to take this 10 point quiz.

1. (10 points) Given an undirected graph $G = \{V, E\}$ with unit edge weight, and a pair of vertices $x \in V$ and $y \in V$. Design a linear-time algorithm that reports the number of distinct shortest paths from x to y. Please provide an intuition first.