National University of Computer and Emerging Sciences, Lahore Campus

Course:	Design and Analysis of Algorithms	Course Code:	CS302
Program:	BS(Computer Science)	Semester:	Spring 2018
Duration:	10 Minutes	Total Marks:	10
Paper Date:	8-May-18	Weight	3
Section:	E	Page(s):	1
		Roll No:	
Exam:	Quiz 6(a)	Section:	

Suppose we change the line while (Q is not empty) with while (|Q| >1) of Dijkstra's algorithm.

This change causes the **while** loop to execute |V| - 1 times instead of |V | times. Is this proposed algorithm correct? Justify your answer.