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:	D	Page(s):	1
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Exam:	Quiz 6	Section:	

The following is an algorithm for finding single source shortest-paths for a graph G with weights on the edges, that can be negative (Assume that there is no negative weight cycle). Does it solve the problem?

a. Find the minimal weight in G, W_{min}
b. To each weight in G, add $|W_{min}|$ (absolute value of W_{min})
c. Execute dijkstra algorithm

Justify your answer.