CIS 3223	Short	Quiz	6
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Name: Solutions

Dr Anthony Hughes

Temple ID (last 4 digits:

- Let G = (V, E) be an undirected and connected graph. Determine if each of the following statements are true or false.
- (a) If e is part of some MST of G, then it must be the lightest across some cut of G.

(true) false

(b) The shortest path between two nodes must be part of some MST.

true (false)

(c) If all the weights are distinct, then G has a unique MST.

(true) false

2 Is the algorithm for the 0-1 knapsack problem a greedy algorithm?