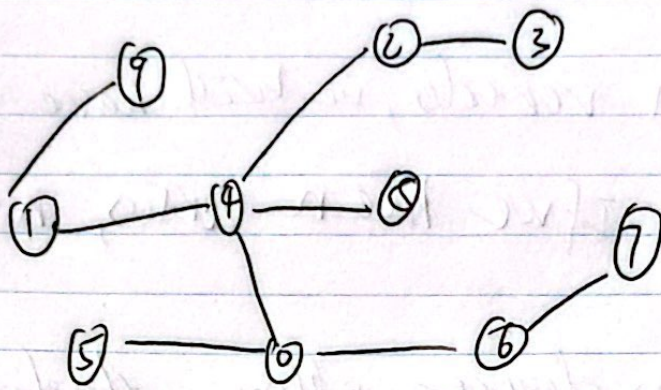


CSC 226

lab 3

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1st loop (0,5) (1,9) (2,3) (4,8) (6,7)

2nd (0,5,6,7) (1,9,4,8) (2,3)

3rd (0,5,6,7) (1,2,3,4,8,9)

4th, all vertices has been checked.

2. Assume we have 2 or more path, when we connect two components, we don't choose the lightest. Thus it is not a minimum spanning Tree. b/c Minimum Spanning Tree has to choose the light path to connect all vertices. In Boru ka's algorithm, we will always get a minimum spanning Tree. Hence the result.

Hibon



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3) If we have n vertices, we will have $n-1$ options of degree. If we have n vertices, $n - (n-1) = 1$.

There will be no degree options. Therefore must be two vertices with same degree.

