Page No. Deepaushie 20190550427 Date for krustal's algorithm, we need edge weight at different time to from smallest cost and in invuening order. Momeronda 23. So, we will sort see edges beforehand. Algorithm Kniskal (4) Set selected Edges = I while (1T/ < / (4)/-1, let (uv) be next edge? a consideration if (u and v are in different component join the components of use V TETO SCYNY Town T Note the following: We have used a data structure called set and also many of its operation like H(size), union et. discussed in the lecture, for knukal's algorithm we will make use of set data structure for fact implementation. 2. Note that I have assumed that we know how to find whather are is same component or not. In other words, adding (u,v) to T will lead to formation of yell or not. However, this how to be hardled referrately and effectively

Homewood 23. 2 the sufficient condition would be that if "graph has distinct edges" because clearly then the lawest n-1 edges. not faming a cycle would be part of MST. But what if edges are same: Then if the edges of tree are all definit, them Mis T is unique. consider the following example but none of them is part of MST As long as edges growing distinct, the MSP is anique If we encounter a case when edges are not distinct we will use the proof of correctness of serushal's algo by or. By doing that technique, we end up claiming that the two trees are identical.