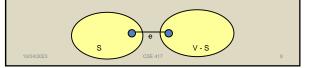
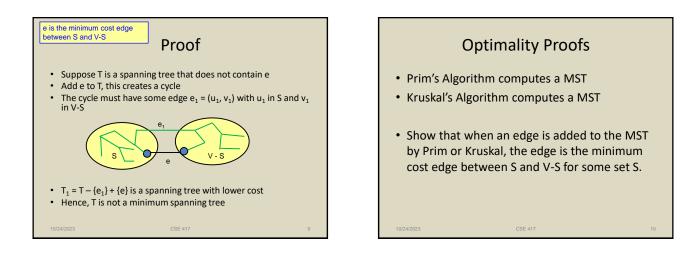


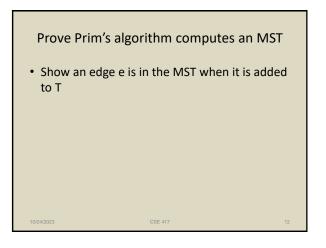
Edge inclusion lemma

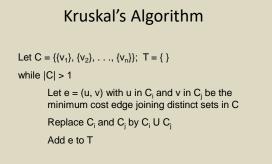
- Let S be a subset of V, and suppose e = (u, v) is the minimum cost edge of E, with u in S and v in V-S
- e is in every minimum spanning tree of G
 Or equivalently, if e is not in T, then T is not a minimum spanning tree

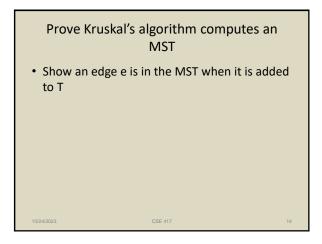












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