260515648 COMP 251 Assign 5 Cheisea Ma 1. Divide - and - Conquer - minimum spanning tree G = (V, E) $\sqrt{-V_1}$ $\frac{1}{3}$ $\frac{1}$ E - E, = set of edges incident only on vertices in VI - Ez = set of edges incident only on vertices in Vz Minimum-spanishing tree on OGI = (VI, EI) @ G12 = (V2, E2) Minimum - weight edge that crosses (VyV2) . Use minimum - weight edge to unite two minimum spanning trees. Result O Algorithm is correct ② Algorithm fails > true Given G. A - B = C-D 10 1 10 10 10 E-F-G-H Divide G into G, and Giz Where G, = { A, B, E, F} 10 / 10 10 10 10 E-F G-H Minimum Spanning Tree of Gi is A-B Cost = 30 E-F Minimum Spanning Tree of Go is C-D Cost=30 G-H