TAM 211 - Written Assignment 13 (due May 1st)

Force $\mathbf{F}$ is pulling cables AB, AC, and AD upward through a ring as shown in the diagram. Determine the greatest force $\mathbf{F}$ that can be applied to the ring if each cable can support a maximum force of 300 N, 600 N, and 900 N, respectively. What is the force in each cable? As the force is increased, which cable would break first?