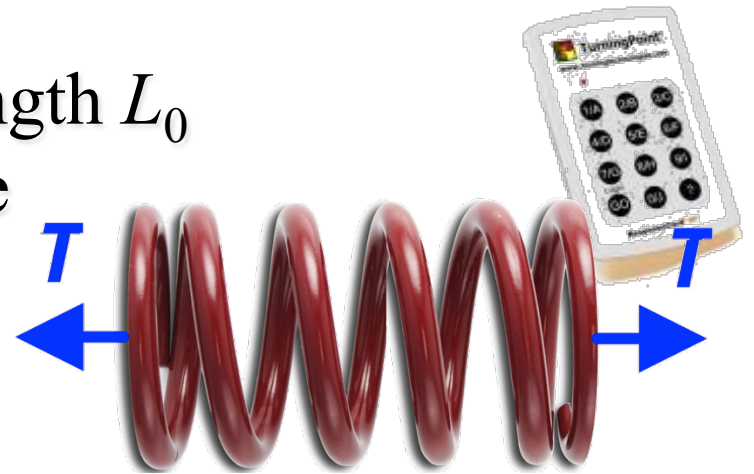
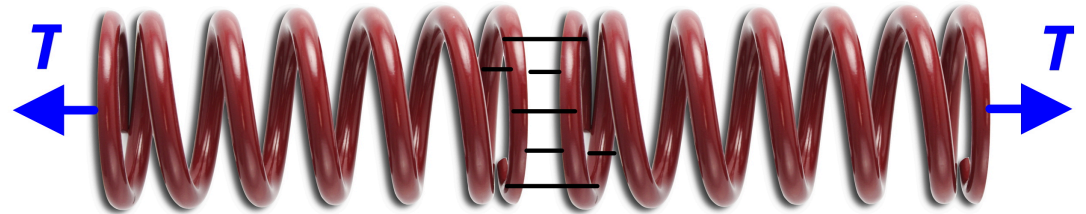


Consider a single spring with rest length L_0 and spring constant k as shown at the right. If we pull on it from opposite sides with a tension T it stretches by ΔL where $T = k\Delta L$.



Suppose two such identical springs are connected as shown. How much would they stretch if pulled by a tension force T ?



A. L_0

B. ΔL

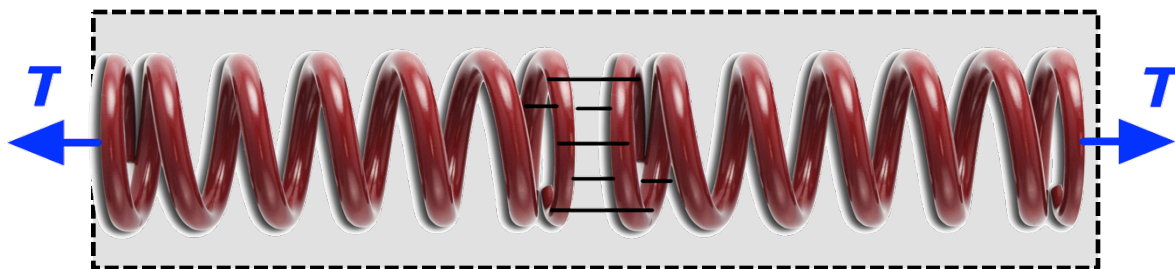
C. $2\Delta L$

D. $\Delta L/2$

E. Something else



If we consider the springs in the dotted box to be a single effective spring, what should we take for its spring constant? (Each individual spring has a spring constant $= k$.)



- A. $k_{\text{eff}} = k$
- B. $k_{\text{eff}} = 2k$
- C. $k_{\text{eff}} = k/2$
- D. Something else