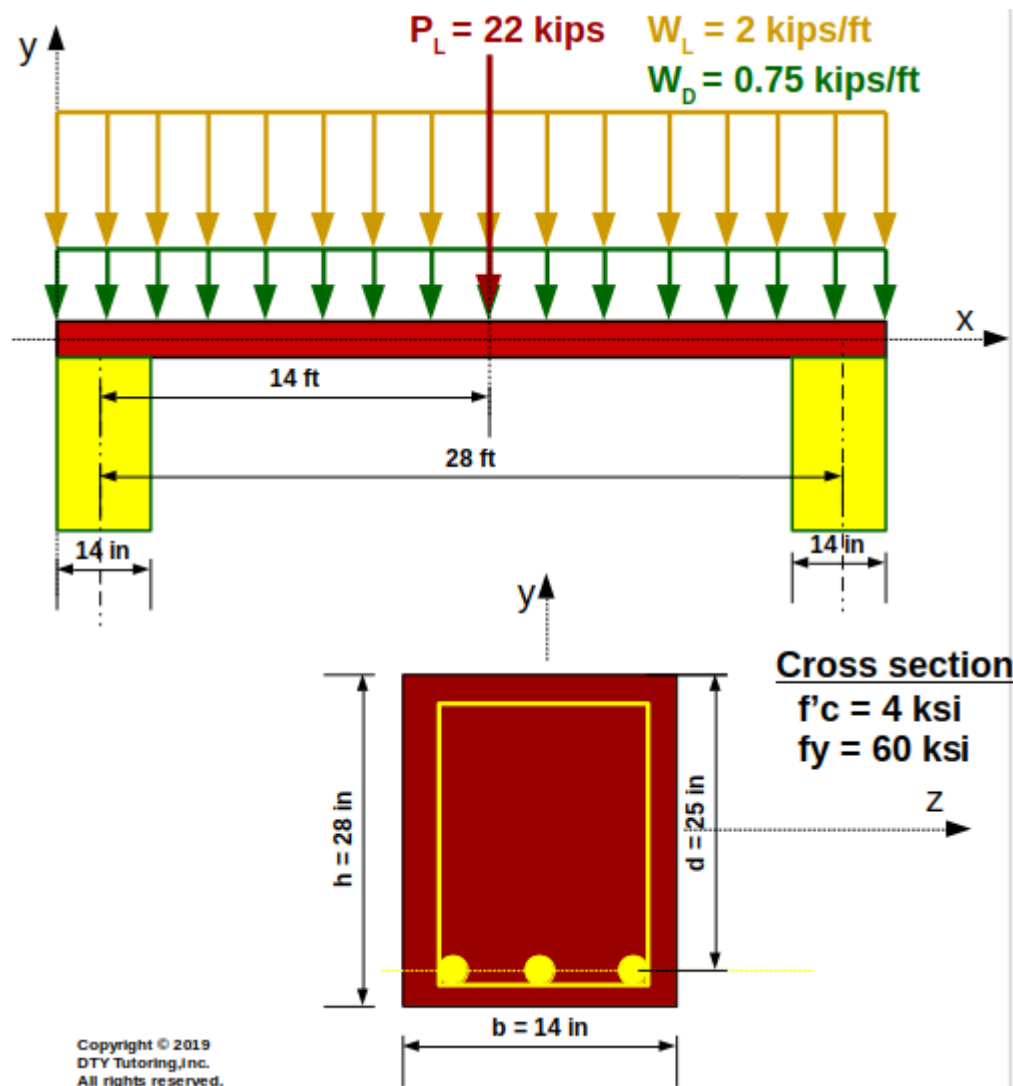


Date: 27th February 2020

Design the shear reinforcement (stirrups) for this 28 ft span simply supported reinforced concrete beam as shown below. Self-weight of the beam is not included in the dead load, $\gamma_{conc} = 150$ pcf. Sketch the stirrups pattern.

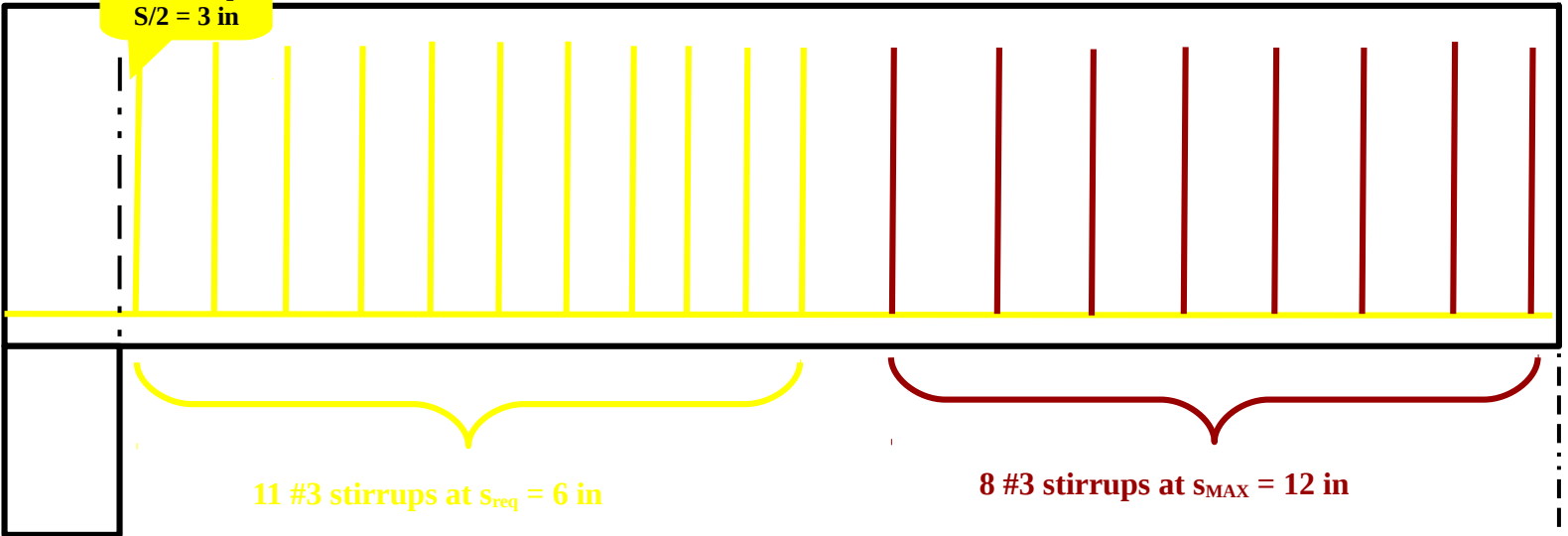




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Answers (refer to solutions for detail)

First stirrup @
 $S/2 = 3$ in



Midspan

19 stirrups until midspan
 $19 * 2 = 38$ stirrups total