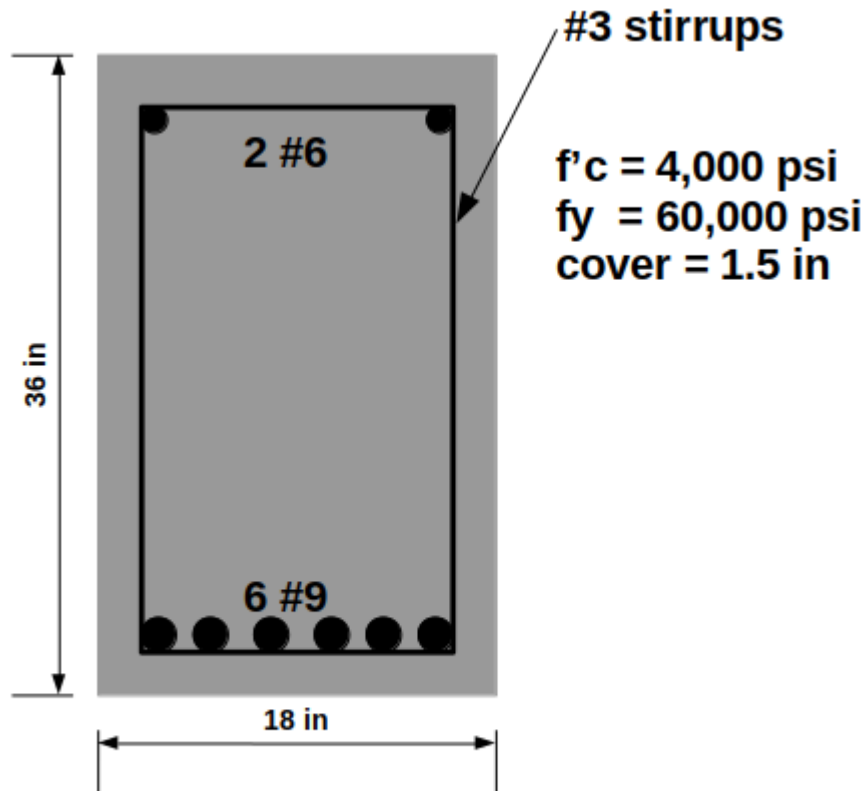




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Date: 13th February 2019

Find the ultimate moment capacity (ΦM_N) for the doubly reinforced concrete rectangular beam shown below.



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Answers (refer to solutions for detail)

$$\Phi M_N = 838.3 \text{ kips-ft}$$