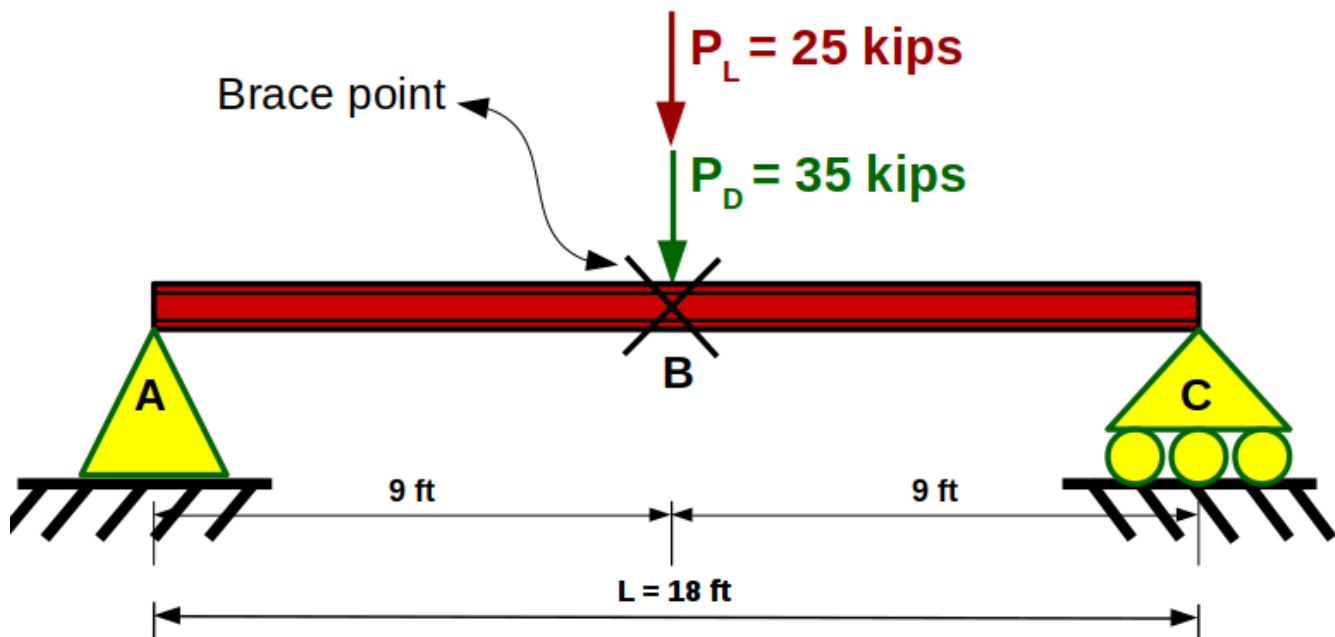




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For the simply supported floor beam with point loads (live and dead loads) at midspan as shown below, select the lightest W-shape beam using LRFD method (factored loads). The beam is laterally braced at the supports and at midspan.



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Answers (refer to solutions for detail)

Lightest and economical beam choice: W21x55 or W24x55