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Exact and Heuristic Methods for solving the Robotic Assembly Line Balancing Problem

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**Highlights**

- We propose new algorithms for minimizing the cycle time in robotic assembly lines.
- The first is a branch-bound-and-remember method with cyclic best-first search.
- The second is an iterative beam search.
- Both methods use newly proposed lower bounds and dominance rules.
- Our methods improve the results from the literature and are faster.

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