

Dual
solutions
 (\bar{u}, \bar{v})

Solve RMP

Solve SP, stop if $\bar{c}_{q+1} \geq 0$

New
extreme
point $(x^{(q+1)})$

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graph TD; A["Dual solutions (u-bar, v-bar)"] --> B["Solve RMP"]; A --> C["Solve SP, stop if c-bar_{q+1} >= 0"]; B --> D["New extreme point (x^{(q+1)})"]; C --> D;
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The diagram illustrates the iterative process of the Revised Simplex Method. It starts with dual solutions (\bar{u}, \bar{v}) on the left. These are used to solve the Revised Master Problem (RMP) and the Subproblem (SP). The SP step includes a stopping condition: if $\bar{c}_{q+1} \geq 0$, the process stops. Both the RMP and SP steps lead to the identification of a new extreme point $(x^{(q+1)})$ on the right, which is then used to update the dual solutions for the next iteration.