RSK insertion

To insert x into a row:

- If x is weakly greater than all entries in the row, add x to the end of the row.

- Otherwise, let y be the smallest entry in the row such that $y > x$. Replace y with x, and insert y into the next row.

Hecke insertion

To insert x into a row:

- If x is weakly greater than all entries in the row

  - If adding x to the end of the row results in an increasing tableau, do it.
  - If not, the row is unchanged.

- Otherwise, let y be the smallest entry in the row such that $y > x$.

  - If replacing y with x results in an increasing tableau, do it. Insert y into the next row.
  - If not, do not replace y with x. Insert y into the next row.

Sagan-Worley insertion

To insert x into a tableau:

- Insert x into the first row as in RSK. Bump out the smallest $y > x$ if such a y exists.

  - If y is not on the main diagonal, insert y into the next row.
  - If y is on the main diagonal, insert y into the next column to the right and continue column insertion.

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