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Analysis of local operators applied to discrete tracking problems

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Unfortunately, some of the equations had line breaks in positions which could lead to confusion. The improved equations can be seen below:

$$\binom{i}{k} (\Pr_p[X = x])^k \left(\Pr_p[\text{dist}(A + X - S, \mathbf{0}) = \delta] - \Pr_p[X = x] \right)^{i-k}. \quad (17)$$

$$\begin{aligned} T[A \rightarrow B] &= \Pr_p[\text{best}_{1 \leq i \leq \lambda}(A + X_i - S) = B \mid X_1, \dots, X_\lambda] \\ T[A \rightarrow \text{absorb}] &= 1 - \sum_{B \in \text{States} \setminus \{\text{absorb}\}} \Pr_p[\text{best}_{1 \leq i \leq \lambda}(A + X_i - S) = B \mid X_1, \dots, X_\lambda] \\ T[\text{absorb} \rightarrow \text{absorb}] &= 1 \\ T[\text{absorb} \rightarrow A] &= 0. \end{aligned} \quad (19)$$

$$\Pr[\text{dist}(A + X - S, \mathbf{0}) = d] = \Pr[\text{dist}(A + X - S, \mathbf{0}) \leq d] - \Pr[\text{dist}(A + X - S, \mathbf{0}) \leq d - 1] \quad (26)$$

$$T[d' \rightarrow d] = \Pr\left[\min_{1 \leq i \leq \lambda} \text{dist}(A + X_i - S, \mathbf{0}) = d \mid X_1, \dots, X_\lambda, \text{dist}(A, \mathbf{0}) = d'\right]. \quad (29)$$