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\begin{split} \varepsilon_{1} &= .; \; \varepsilon_{2} = 1; \; \varepsilon_{3} = 1; \; \varepsilon_{4} = \varepsilon_{3}; \; \varepsilon_{5} = 1; \\ &\text{UU}[\text{expr}_{\_}] \; / / \; \text{hts}[\textbf{y}_{\_}, \, \textbf{x}_{\_}] \; := \; S[\text{UU}[\text{Expand}[\text{expr}_{\_}] \; . \; \{ \\ & \quad \text{a}[\textbf{f}_{\_}, \, \textbf{i}_{\_}, \, \textbf{j}_{\_}] \; . \rangle \\ & \quad \text{a}[\textbf{f}_{\_}, \, \textbf{i}_{\_}, \, \textbf{j}_{\_}] \; . \rangle \\ & \quad \text{a}[\textbf{f}_{\_}, \, \textbf{i}_{\_}, \, \textbf{j}_{\_}] \; . \; & \quad \text{K} \delta_{1,x} \, \textbf{K} \delta_{j,y} \; (\beta[\textbf{f} \, \textbf{b}_{x}] + \textbf{c}[\textbf{f}_{\_}, \, \textbf{y}] - \delta \beta[\textbf{b}_{x} \, \delta_{\textbf{b}_{x}} \textbf{f}_{\_}]) \; , \\ & \quad \delta \text{a}[\textbf{f}_{\_}, \, \textbf{x}_{\_}, \, \textbf{y}] \; . \; & \quad \delta \text{a}[\textbf{f}_{\bot}, \, \textbf{x}_{\bot}, \, \textbf{y}] - \delta \beta[\textbf{f} \, \textbf{b}_{x}] \; , \\ & \quad \text{ca}[\textbf{f}_{\_}, \, \textbf{i}_{\_}, \, \textbf{j}_{\_}, \, \textbf{k}_{\_}] \; . \rangle \\ & \quad \text{ca}[\textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \; & \quad \text{ca}[\textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \\ & \quad \text{ca}[\textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \; & \quad \text{ca}[\textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \\ & \quad \text{ca}[\textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \; & \quad \text{k} \, \text{Likely problem here:} \; *) \, \delta_{\textbf{a}\textbf{a}}[\textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}, \, \textbf{k}_{\bot}] \; . \\ & \quad \text{e}_{4} \, \textbf{K} \delta_{1,x} \, \textbf{K} \delta_{3,y} \; \delta_{\textbf{a}}[-\textbf{b}_{x} \, \textbf{f}_{\bot}, \, \textbf{k}_{\bot}] \; . \; + \; \epsilon_{3} \, \textbf{K} \delta_{1,x} \, \textbf{K} \delta_{1,y} \; (-\delta_{\textbf{a}}[\textbf{b}_{\textbf{k}} \, \textbf{f}_{\bot}, \, \textbf{x}_{\bot}, \, \textbf{j}_{\bot}] \; . \\ & \quad \text{e}_{1} \, \textbf{K} \delta_{\textbf{k},x} \, \textbf{K} \delta_{3,y} \; (\delta_{\textbf{a}}[\textbf{b}_{\bot} \, \textbf{f}_{\bot}, \, \textbf{x}_{\bot}, \, \textbf{j}_{\bot}] \; . \; + \; \kappa \delta_{1,x} \, \textbf{K} \delta_{3,1,y} \; \delta_{\boldsymbol{\beta}}[\textbf{b}_{\bot} \, \textbf{b}_{\textbf{k}} \, \textbf{f}_{\bot}] \\ & \quad \text{e}_{2} \, \textbf{K} \delta_{\textbf{k},x} \, \textbf{K} \delta_{1,y} \; \delta_{\textbf{a}}[-\textbf{b}_{x} \, \textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \; + \; \kappa \delta_{1,x} \, \textbf{K} \delta_{3,1,y} \; \delta_{\boldsymbol{\beta}}[\textbf{b}_{\bot} \, \textbf{b}_{\textbf{k}} \, \textbf{f}_{\bot}] \\ & \quad \text{e}_{2} \, \textbf{K} \delta_{\textbf{k},x} \, \textbf{K} \delta_{1,y} \; \delta_{\textbf{a}}[-\textbf{b}_{x} \, \textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \; + \; \kappa \delta_{1,x} \, \textbf{K} \delta_{3,1,y} \; \delta_{\boldsymbol{\beta}}[\textbf{b}_{\bot} \, \textbf{b}_{\textbf{k}} \, \textbf{f}_{\bot}] \\ & \quad \text{e}_{2} \, \textbf{K} \delta_{\textbf{k},x} \, \textbf{K} \delta_{1,y} \; \delta_{\textbf{a}}[-\textbf{b}_{x} \, \textbf{f}_{\bot}, \, \textbf{i}_{\bot}, \, \textbf{j}_{\bot}] \; . \; + \; \kappa \delta_{1,x} \, \textbf{K} \delta_{3,1,y} \; \delta_{\boldsymbol{\beta}}[\textbf{b}_{\bot} \, \textbf{b}_{\bot}] \\ & \quad \text{e}_{1} \, \textbf{K} \delta_{1,x} \, \textbf{K} \delta_{1,x} \, \textbf{K} \delta_{1,x} \, \textbf{K} \delta_{3,x} \, \textbf{K} \delta_{3,x} \, \textbf{K} \delta_{3,x} \, \textbf{K} \delta_{
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