Linear Copolymerisation in FORTRAN 2008

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The probability of reaction between monomers $i,\ j$ is calculated by dividing the speed at which monomers $i,\ j$ react by all possible reactions of i with other monomers

$$
\begin{aligned}
P_{ij} &= \frac{k_{ij}[i][j]}{\sum_{j=1}^{N} k_{ij}[i][j]} \\
P_{ij} &= \frac{k_{ij}[i][j]}{[i]\sum_{j=1}^{N} k_{ij}[j]} \\
P_{ij} &= \frac{k_{ij}[j]}{\sum_{j=1}^{N} k_{ij}[j]}
\end{aligned} \tag{1}
$$

where $k \equiv$ reaction speed constant and $[\cdots]$ denotes concentration.

$[0, a), [a, b), [b, 1)$

$$old = 123456789$$

Remove 4

$$new = 12356789$$