Start

Compute all assignment rules:
\[ \dot{Q} = g(Q, t) \]

\( j := 1 \)

Compute flux \( J_j \) through \( R_j \):
\[ J_j = \nu_j(Q, t, N, W, p) \]

for each species \( i \) in \( R_j \):
\[ \dot{Q}_i = \dot{Q}_i + n_{ij} \cdot J_j \]

\( j := j + 1 \)

\( j > |R| \)?

Yes

Stop

No