$L[ijx\ .\overline{X}\ .X\ \overline{IJ}] \leftarrow \max$
$\qquad A[x\ j] \quad L[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$L[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[j\ x] \quad L[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$L[ijx\ J\overline{X}\ \overline{IX}\ \overline{IJ}] \leftarrow \max$
$\qquad A[j\ i] \quad L[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}]$

$L[ijx\ \overline{JX}\ I\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[i\ j] \quad L[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}]$

$R[ijx\ .X\ .\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[x\ i] \quad R[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$R[ijx\ .\overline{X}\ .\overline{X}\ I\overline{J}] \leftarrow \max$
$\qquad A[i\ x] \quad R[ijx\ .\overline{X}\ .X\ \overline{IJ}]$

$R[ijx\ J\overline{X}\ \overline{IX}\ \overline{IJ}] \leftarrow \max$
$\qquad A[j\ i] \quad R[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}]$

$R[ijx\ \overline{JX}\ I\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[i\ j] \quad R[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}]$

$N[ijx\ .X\ .\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[x\ i] \quad N[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$N[ijx\ .\overline{X}\ .\overline{X}\ I\overline{J}] \leftarrow \max$
$\qquad A[i\ x] \quad N[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$N[ijx\ .\overline{X}\ .X\ \overline{IJ}] \leftarrow \max$
$\qquad A[x\ j] \quad N[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$N[ijx\ .\overline{X}\ .\overline{X}\ I\overline{J}] \leftarrow \max$
$\qquad A[j\ x] \quad N[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}]$

$N[ijx\ J\overline{X}\ \overline{IX}\ \overline{IJ}] \leftarrow \max$
$\qquad A[j\ i] \quad N[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}]$

$N[ijx\ \overline{JX}\ I\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[i\ j] \quad N[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}]$

$B\cdot[ijx\ F\ I\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[i\ j] \quad B\cdot[ijx\ F\ \overline{IX}\ \overline{IJ}]$

$\cdot B[ijx\ J\overline{X}\ F\ \overline{IJ}] \leftarrow \max$
$\qquad A[j\ i] \quad \cdot B[ijx\ \overline{JX}\ F\ \overline{IJ}]$

$I[ij\ F\ I] \leftarrow \max$
$\qquad A[i\ j] \quad I[ij\ F\ \overline{I}]$

$I[ij\ J\ F] \leftarrow \max$
$\qquad A[j\ i] \quad I[ij\ \overline{J}\ F]$

$X[ijx\ .X\ .\overline{X}\ F] \leftarrow \max$
$\qquad A[x\ i] \quad I[ij\ .\ .]$

$X[ijx\ .\overline{X}\ .\overline{X}\ I\overline{J}] \leftarrow \max$
$\qquad A[i\ x] \quad I[ij\ .\ .]$

$X[ijx\ .\overline{X}\ .X\ F] \leftarrow \max$
$\qquad A[x\ j] \quad I[ij\ .\ .]$

$X[ijx\ .\overline{X}\ .\overline{X}\ \overline{IJ}] \leftarrow \max$
$\qquad A[j\ x] \quad I[ij\ .\ .]$

$I[ij\ F\ \overline{I}] \leftarrow \max$
$$\begin{cases}
I[i\ i{+}1\ F\ F] \quad I[i{+}1\ j\ \overline{F}\ F] \\
\max_{k\in(i,j)} \\
\quad\begin{cases}
I[ik\ F\ I] \quad I[kj\ .\ .] \\
BLRN\cdot[ikj\ F\ I\overline{J}\ \overline{IK}] \quad I[kj\ .\ .] \\
\max_{l\in(k,j)} \\
\quad\begin{cases}
RN\cdot[ikl\ F\ I\overline{L}\ \overline{IK}] \quad I[kl\ .\ .] \quad \cdot LNX[ljk\ .\overline{K}\ .\ \overline{L}.] \\
BLRN\cdot[ikl\ F\ I\overline{L}\ \overline{IK}] \quad I[kl\ .\ .] \quad I[lj\ .\ .]
\end{cases} \\
\max_{l\in(i,k)} \\
\quad\begin{cases}
I[il\ F\ .] \quad \cdot LN[lki\ .\overline{I}\ .I\ F] \quad \cdot N[kjl\ \overline{JL}\ \overline{K}.\ \overline{K}.] \\
RNX\cdot[ilk\ F\ .\overline{K}\ I\overline{L}] \quad I[lk\ .\ .] \quad \cdot LN[kjl\ .\overline{L}\ .\ \overline{K}.]
\end{cases}
\end{cases}
\end{cases}$$

$I[ij\ j\ F] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
I[ik\ \overline{F}\ .] \quad I[kj\ J\ F] \\
I[ik\ \overline{F}\ .] \quad \cdot BLRN[kji\ J\overline{I}\ F\ \overline{KJ}] \\
\max_{l\in(i,k)} \\
\quad\begin{cases}
RNX\cdot[ilk\ \overline{F}\ .\overline{K}\ .\overline{L}] \quad I[lk\ .\ .] \quad \cdot LN[kjl\ J\overline{L}\ F\ \overline{KJ}] \\
I[il\ \overline{F}\ .] \quad I[lk\ .\ .] \quad \cdot BLRN[kjl\ J\overline{L}\ F\ \overline{KJ}]
\end{cases} \\
\max_{l\in(k,j)} \\
\quad\begin{cases}
N\cdot[ikl\ \overline{KF}\ \overline{IL}\ .\overline{K}] \quad RN\cdot[klj\ .J\ .\overline{J}\ F] \quad I[lj\ .\ F] \\
RN\cdot[ikl\ \overline{F}\ .\overline{L}\ .\overline{K}] \quad I[kl\ .\ .] \quad \cdot LNX[ljk\ .\overline{K}\ F\ \overline{LJ}]
\end{cases}
\end{cases}$$

$L[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
LN[ikx\ .\overline{X}\ .X\ \overline{IK}] \quad \cdot N[kji\ \overline{JI}\ \overline{KI}\ \overline{KJ}] \\
LN[ikx\ .\overline{X}\ .\overline{X}\ \overline{I}K] \quad \cdot N[kji\ \overline{JI}\ \overline{KI}\ \overline{KJ}] \\
L[ikx\ .\overline{X}\ .X\ \overline{IK}] \quad I[kj\ .\ .] \\
L[ikx\ .\overline{X}\ .\overline{X}\ \overline{I}K] \quad I[kj\ .\ .] \\
N[ikx\ \overline{KX}\ IX\ \overline{IK}] \quad I[kj\ .\ .] \\
N[ikx\ \overline{KX}\ I\overline{X}\ \overline{IK}] \quad I[kj\ .\ .] \\
N[ikx\ K\overline{X}\ \overline{I}X\ \overline{IK}] \quad I[kj\ .\ .] \\
N[ikx\ K\overline{X}\ \overline{IX}\ \overline{IK}] \quad I[kj\ .\ .]
\end{cases}$$

$L[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
X[ikx\ .\overline{X}\ .X\ F] \quad \cdot LN[kji\ .\overline{I}\ .I\ \overline{KJ}] \\
X[ikx\ .\overline{X}\ .\overline{X}\ \overline{I}K] \quad \cdot LN[kji\ .\overline{I}\ .I\ \overline{KJ}]
\end{cases}$$

$B\cdot[ijx\ F\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
LN\cdot[ikx\ F\ I\overline{X}\ \overline{IK}] \quad R\cdot[kjx\ .\ .\overline{X}\ .\overline{J}] \\
LN\cdot[ikx\ F\ I\overline{X}\ \overline{IK}] \quad N\cdot[kjx\ \overline{J}.\ K\overline{X}\ .\overline{J}] \\
LN\cdot[ikx\ F\ I\overline{X}\ \overline{IK}] \quad N\cdot[kjx\ J.\ \overline{KX}\ .\overline{J}]
\end{cases}$$

$\cdot B[ijx\ \overline{JX}\ F\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
\cdot L[ikx\ .\overline{X}\ .\ \overline{I}.] \quad \cdot RN[kjx\ J\overline{X}\ F\ \overline{KJ}] \\
\cdot N[ikx\ K\overline{X}\ \overline{I}.\ \overline{I}.] \quad \cdot RN[kjx\ J\overline{X}\ F\ \overline{KJ}] \\
\cdot N[ikx\ \overline{KX}\ I.\ \overline{I}.] \quad \cdot RN[kjx\ J\overline{X}\ F\ \overline{KJ}]
\end{cases}$$

$N[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
\cdot N[ikx\ \overline{KX}\ \overline{I}X\ \overline{IK}] \quad I[kj\ .\ .] \\
\cdot N[ikx\ \overline{KX}\ \overline{IX}\ \overline{IK}] \quad I[kj\ .\ .] \\
I[ik\ .\ .] \quad N\cdot[kjx\ \overline{JX}\ \overline{KX}\ \overline{KJ}] \\
I[ik\ .\ .] \quad N\cdot[kjx\ \overline{JX}\ \overline{KX}\ K\overline{J}]
\end{cases}$$

$N[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
\cdot X[ikx\ .\overline{X}\ .X\ \overline{IK}] \quad I[kj\ .\ .] \\
\cdot X[ikx\ .\overline{X}\ .\overline{X}\ \overline{I}K] \quad I[kj\ .\ .] \\
I[ik\ .\ .] \quad X\cdot[kjx\ .X\ .\overline{X}\ \overline{KJ}] \\
I[ik\ .\ .] \quad X\cdot[kjx\ .\overline{X}\ .\overline{X}\ K\overline{J}]
\end{cases}$$

$R[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
N\cdot[ikj\ \overline{KJ}\ \overline{IJ}\ \overline{IK}] \quad RN[kjx\ .X\ .\overline{X}\ \overline{KJ}] \\
N\cdot[ikj\ \overline{KJ}\ \overline{IJ}\ \overline{IK}] \quad RN[kjx\ .\overline{X}\ .\overline{X}\ K\overline{J}] \\
I[ik\ .\ .] \quad R[kjx\ .X\ .\overline{X}\ \overline{KJ}] \\
I[ik\ .\ .] \quad R[kjx\ .\overline{X}\ .\overline{X}\ \overline{KJ}] \\
I[ik\ .\ .] \quad N[kjx\ JX\ \overline{KX}\ \overline{KJ}] \\
I[ik\ .\ .] \quad N[kjx\ J\overline{X}\ \overline{KX}\ K\overline{J}] \\
I[ik\ .\ .] \quad N[kjx\ \overline{JX}\ K\overline{X}\ \overline{KJ}] \\
I[ik\ .\ .] \quad N[kjx\ \overline{JX}\ K\overline{X}\ K\overline{J}]
\end{cases}$$

$R[ijx\ \overline{JX}\ \overline{IX}\ \overline{IJ}] \leftarrow \max_{k\in(i,j)}$
$$\begin{cases}
RN\cdot[ikj\ .\overline{J}\ .\overline{J}\ \overline{IK}] \quad X[kjx\ .X\ .\overline{X}\ F] \\
RN\cdot[ikj\ .\overline{J}\ .\overline{J}\ \overline{IK}] \quad X[kjx\ .\overline{X}\ .\overline{X}\ K\overline{J}]
\end{cases}$$